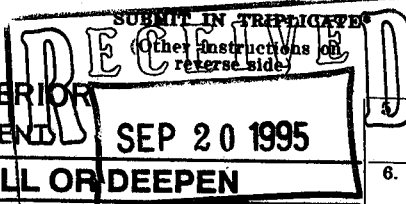


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

DIV. OF OIL, GAS & MINING

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

CONLEY P. SMITH OPERATING COMPANY

3. ADDRESS AND TELEPHONE NO.

1125-17th St., Suite 2360, Denver, CO 80202 303-296-1434 800-648-6421

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

675' FSL & 670' FWL (SWSW)

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10 miles south of LaSal, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

670'

16. NO. OF ACRES IN LEASE

1470.70

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

NA

19. PROPOSED DEPTH

5600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5817' GR

22. APPROX. DATE WORK WILL START*

Oct. 20, 1995

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
22'	16" conductor	unknown	+30'	to surface
12 1/4"	8 5/8" J-55	24#	2000'	to surface (+870 sx)
7 7/8"	5 1/2" J-55	15.5	T D	fillup 1500' (+280 sx)

Conley P. Smith Operating Company will drill this well to attempt to establish oil production in this area. Operations will be in accordance with applicable rules and regulations of State and Federal agencies. The attached information will hopefully provide intended operating procedures.

We certify that Conley P. Smith Operating Company is responsible under the terms and conditions of the lease operations in conjunction with this application. Bond coverage pursuant to 43 CFR 3104 for lease operations is being provided by Conley P. Smith Operating Company under a lease bond written by Underwriters Indemnity.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Bob Vernon

TITLE

Operations Manager

DATE

9/18/95

(This space for Federal or State office use)

PERMIT NO.

43-037-31767

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

COMPANY/OPERATOR: CONLEY P. SMITH OPERATING CO.

WELL NAME & NO. FOSTER FEDERAL 19-13

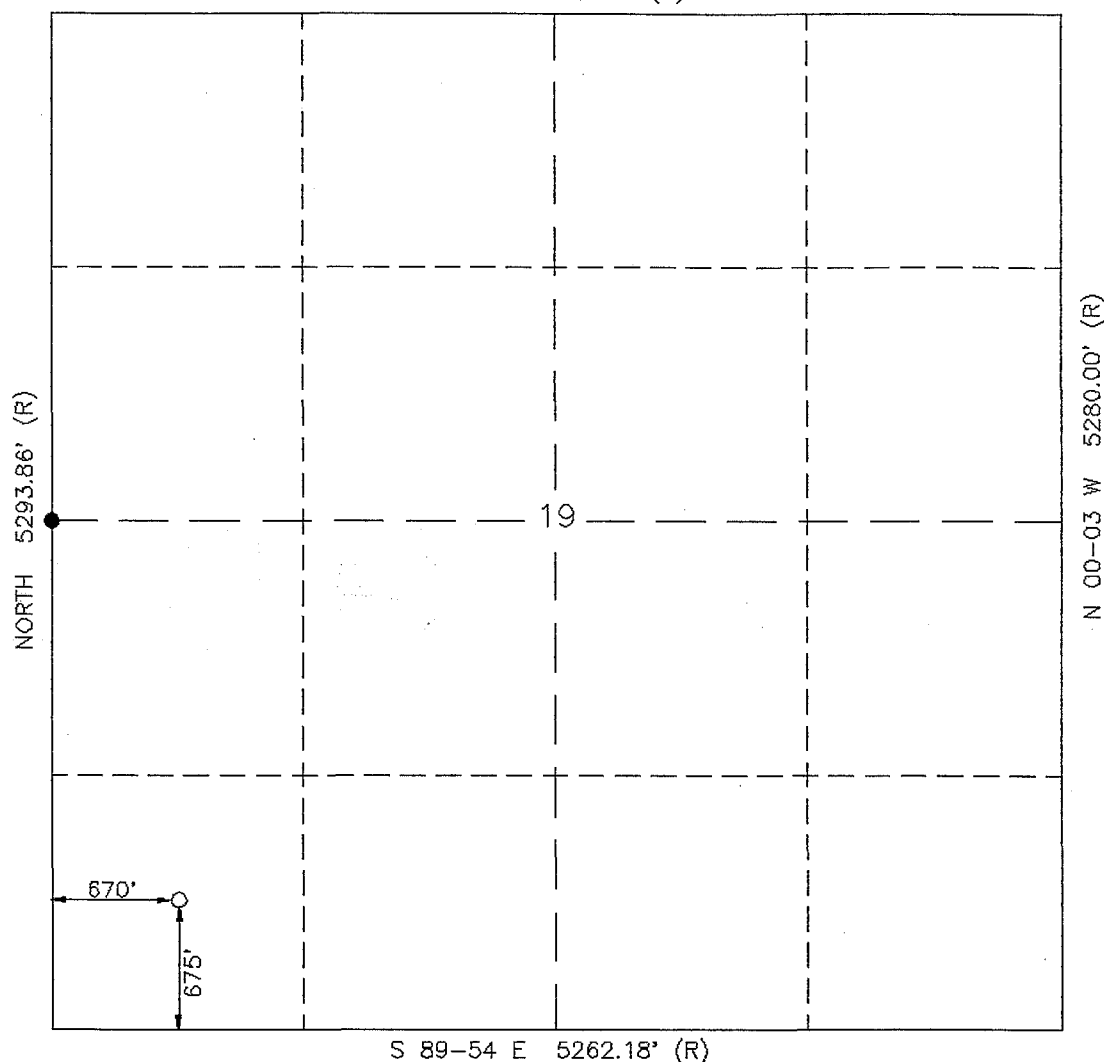
FOOTAGE: 675' FSL 670' FWL

SEC.: 19, TWN: T.30 S., RNG: R.24 E., SLBPM

COUNTY: SAN JUAN, STATE: UTAH

GROUND ELEVATION: 5817'

S 89-49 E 5253.60' (R)



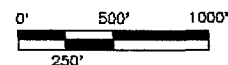
NOTE:

- 1.) BASIS OF BEARING: SOLAR OBSERVATION TAKEN NEAR THE WEST LINE OF SEC. 19 - TIED TO SURVEY BY TRAVERSE.
- 2.) BASIS OF ELEVATION: 1933 U.S.G.S BENCH MARK "B-21" LOCATED IN THE SW/4 OF SEC. 26, T 30 S, R 23 E, = 6004.67'.
- 3.) THERE PRESENTLY EXISTS NO VISIBLE IMPROVEMENTS WITHIN 200 FEET OF THE WELL FLAG LOCATION OTHER THAN THOSE AS SHOWN HEREON OR ON THE ATTACHED PIT AND PAD DIAGRAM.

LEGEND

- = WELL FLAG
- = FOUND 1919 G.L.O. BRASS CAP
- △ = SET AS NOTED
- ⊗ = CALCULATED POSITION

SCALE: 1"=500'

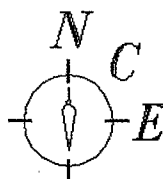


I, NEALE C. EDWARDS, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF UTAH, CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD DATA OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

7-15-95

DATE

NEALE C. EDWARDS
UTAH (R.L.S.) #5264



P.O. BOX 6612
FARMINGTON, NEW MEXICO 87402
(505) 325-2654

SURVEYS, INC.

CONLEY P. SMITH OPERATING COMPANY
ADDITIONAL INFORMATION

UTU-71433

Foster Federal #19-13

SWSW Section 19-T30N-R24E

Lisbon Area

San Juan County, Utah

1. ESTIMATED TOPS FOR IMPORTANT GEOLOGIC FORMATIONS

Navajo	178'	Hermosa	3464'
Wingate	614'	Upper Ismay	4667'
Chinle	964'	Lower Ismay	4820'
Shinarump	1434'	Paradox	4918'
Cutler	1538'	T.D.	5600'

2. ANTICIPATED DEPTHS OF WATER, OIL, GAS OR MINERAL-BEARING FORMATIONS

Chinle	964'	Possible Water
Ismay	4667'	Oil

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

As per BLM Onshore Order #2, 43 CFR, Part 3160, and due to known area pressures, the blowout preventer and related equipment will be in accordance with a 2M system. Expected hydrostatic bottom hole pressure will be +-2300 PSI. Lack of gas pressure encountered in area wells indicates a gas flare pit/vessel is not needed. Pressure tests will be conducted every 30 days if drilling time dictates.

4. PROPOSED CASING AND CEMENTING PROGRAM

Conductor	Unknown wt.	16"	30'	Unknown grade
Surface	24.0#/ft.	8 5/8"	2000'	New J-55 ST&C
Production	15.5#/ft.	5 1/2"	0' - T.D.'	New J-55 LT&C

4. PROPOSED CASING AND CEMENT PROGRAM (con't.)

Cement Program:

16" conductor at 30'	cement to surface	Class G
8 5/8" surface (2000')	cement to surface	870 sx total: 670 sx 65/35, 6% gel, 2% CaCl, .25# sk Silica; 200 sx Class G 2% CaCl; 100% excess
5 1/2" Production (5600')	1500' cement fillup TD to +-4100'	280 sx Class G, .5% B-14, 25% excess

5. TYPE AND CHARACTERISTICS OF THE CIRCULATING FLUID

Mud Program:

Surface to 2000'	Water, Gel & Lime; Mud weight 8.4-9.0#/gal.; 32-50 vis.
2000' - 4000'	Water & Polymer Mud weight 8.4-8.5#/ gal.; 28-32 vis., 8-10 cc water loss
4000' - 5600'	Anco gel with liquid Polymer Mud weight 8.6-9.0; 34-45 vis.; 8-10 cc water loss

Quantities of mud kept on location will equal the volume of the active mud system. Mud returns will be monitored by rig personnel and a pit level indicator.

6. TESTING, LOGGING AND CORING PROGRAMS TO BE FOLLOWED

Drill stem tests will be run if determined necessary.

The well will not be cored.

Dual Induction w/GR & SP will be run from T.D. to surface, a Compensated Sonic and Neutron Density/GR over possible productive formations, and additional logs run as determined necessary at the time.

6. TESTING, LOGGING AND CORING PROGRAMS TO BE FOLLOWED (con't.)

During completion, potential sections of the Ismay formation will be perforated as necessary. Fracture treatment, pressures, volumes, etc., will be determined at completion time.

All potential productive formations will be cemented.

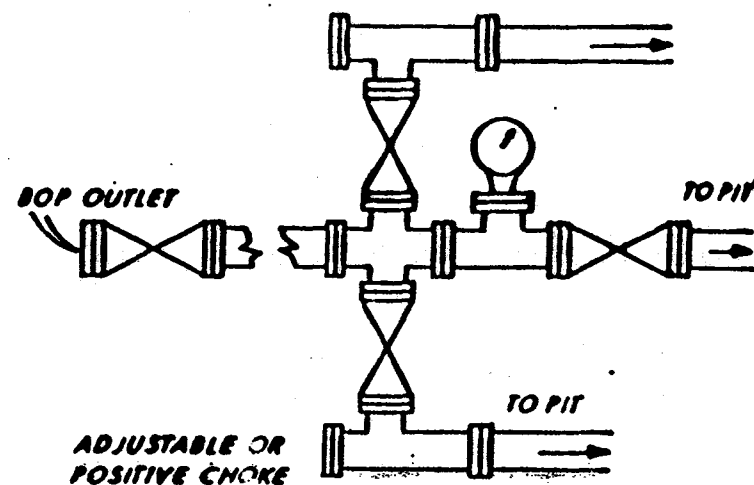
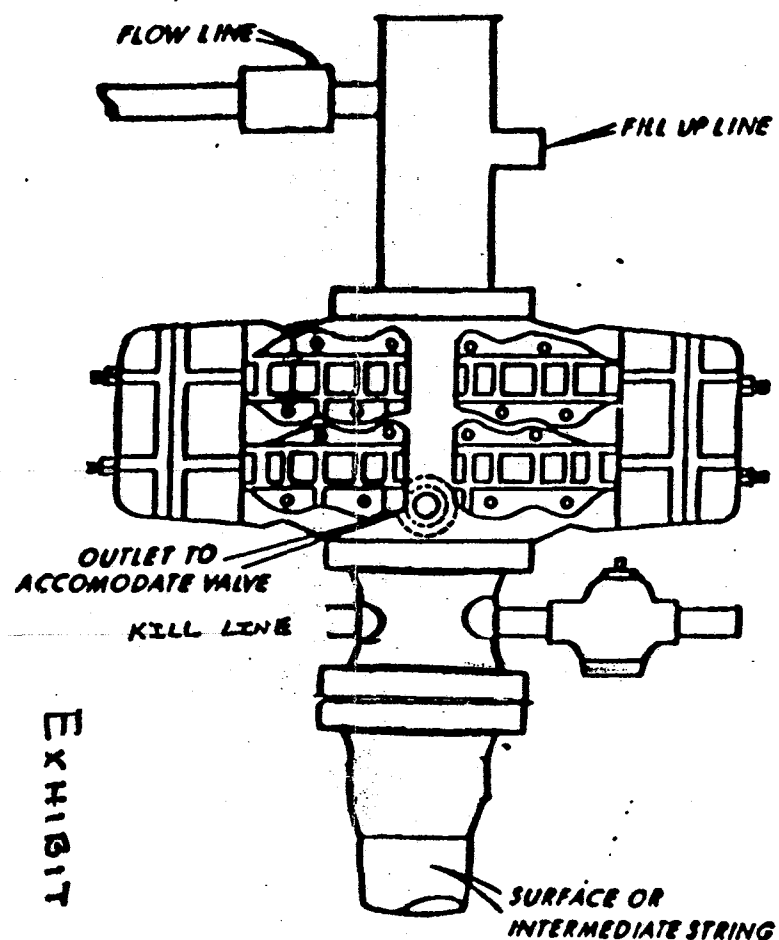
7. ANY ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

No abnormal pressures or temperatures have been noted in wells drilled in this area. No hazards such as hydrogen sulfide gas are known to be present.

8. ADDITIONAL INFORMATION

The well will be drilled under the supervision of a company representative. All precautions will be taken to insure a safe and workmanlike operation.

Casing will be tested to .22 PSI per foot, or 1500#, whichever is greater, and not to exceed 70% of the internal yield pressure.



1. BOP VALVES AND ALL WORKING FITTINGS SHOULD BE IN GOOD WORKING CONDITION.
2. ALL BOLTS TO BE INSTALLED AND TIGHT.
3. ALL VALVES TO BE 3000# W.P. OR BETTER.
4. AFTER NIPPLING UP TEST RAMS AND PRESSURE UP TO 1000# FOR 15 MINUTES AND CHECK FOR POSSIBLE LEAKS.
5. ALL CREW MEMBERS TO BE FAMILIAR WITH BOP AND ACCUMULATORS.
6. KEEP HOLE FULL ON TRIPS.
7. USE ONLY FLANGE TYPE FITTINGS.
8. RECHECK BOLTS FOR TIGHTNESS BEFORE 5000 FT. OR ENTERING PRODUCTION ZONES.
9. WHEN DRILLING USE.
TOP PREVENTER - DRILL PIPE RAMS
BOTTOM PREVENTER BLIND RAMS
10. WHEN RUNNING CASING USE.
TOP PREVENTER - CASING RAMS
BOTTOM PREVENTER BLIND RAMS

EXHIBIT 'Z'

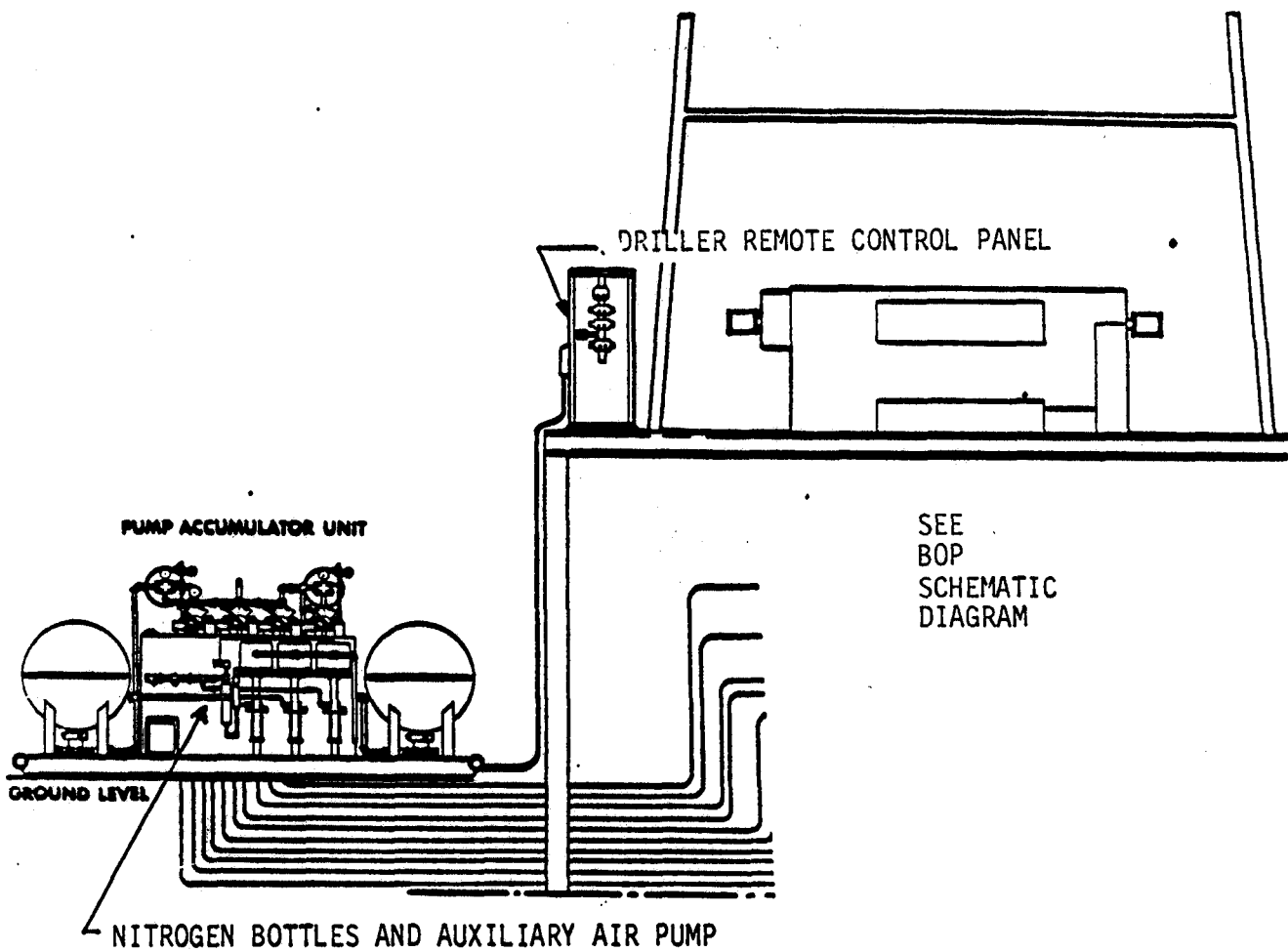


EXHIBIT 'Z-A'

Foster Federal '19-13

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
CONLEY P. SMITH OPERATING COMPANY

UTU-71433

Foster Federal #19-13

SWSW Section 19-T30N-R24E

Lisbon Area

San Juan County, Utah

1. EXISTING ROADS

Refer to the attached maps, EXHIBITS "A" & "B", for the access route from Moab, Utah, to the drillsite. Existing roads and trails will be used to within 600' of the proposed site. All roads will be maintained in their present state and upgraded by lightly flatblading where necessary.

2. PLANNED ACCESS ROADS

The section of existing dirt road from the Lisbon Oil Field paved road in the NESE Section 21, to the SWSW Section 19, will be used in its existing condition where possible. Upgrading will consist of lightly flat-blading if necessary.

New road from the NE corner of the SWSW Section 19 to the wellpad will be gained by flat-blading the sagebrush covered surface. The brush will be piled at a site to be determined. A low water crossing will be needed immediately after leaving the existing trail. The wellpad will be entered on the V-Door end on grade. The +-600' of new road is on flat surface and will consist of up to a 20' wide disturbed area with travel surface being 12' to 14'. This Federal oil and gas lease contains all of Section 19, so if required, we will apply for off-lease use of the road from the east line of Section 19 to the paved road in the NESE Section 21.

There will be no turnouts built. No new cattleguards or gates will be installed. An existing Powder River gate, located in the access road dividing Section 20 and Section 21, will be used in its present condition.

2. PLANNED ACCESS ROADS (con't.)

If surfacing material is needed, it will be obtained from contractors with all necessary permits.

3. LOCATION OF EXISTING WELLS

Conley P. Smith does not own or operate wells in this area. Known wells within 1 mile are shown on EXHIBIT 'B' and consist of 1 8957' dry hole drilled in 1963 by Humble Oil and Gas (NWSE Section 30).

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

New facilities will be built on the north and east edges of the location and will consist of a treater, pit, and tanks. All facilities will be placed on cut portions of the location. Pipelines laid off the location will be approved by BLM.

5. LOCATION AND TYPE OF WATER SUPPLY

It is anticipated the drilling water will be obtained from a source near LaSal. The exact location and details will be known soon and submitted to BLM. Water will be hauled.

6. SOURCE OF CONSTRUCTION MATERIALS

Fencing materials are the only construction materials anticipated. They will be purchased from local contractors and/or suppliers.

We do not plan to use any foreign materials such as gravel, asphalt, etc. However, if they are needed, they will be purchased from local reputable contractors with all necessary permits.

7. METHODS OF HANDLING WASTE DISPOSAL

Drilling cuttings and fluids will be disposed of and contained in the reserve pit.

7. METHODS OF HANDLING WASTE DISPOSAL (con't.)

Water produced during testing will be put in the reserve pit. Permanent water disposal will be in accordance with NTL-2B. Possible oil produced during swab testing will be put in test tanks located on the drillsite.

All sewage is to be contained in a chemically treated porta-potty.

Garbage and waste materials will be contained in a metal trash cage on location and disposed of in the nearest authorized dump when full. Trash will not be thrown in the reserve pit.

The reserve pit will be lined with native mud if possible. BLM will be notified if pit materials encountered during construction may need additional lining material. Reserve pit walls will be sloped at no greater than 3 to 1.

8. ANCILLARY FACILITIES

Ancillary facilities will be temporary and may consist of 2 self-contained trailer houses on the drillsite. No camps or airstrips are to be constructed.

9. WELLSITE LAYOUT

Refer to EXHIBIT "C" for cross sections of the drill pad with cuts and fills, as well as soil stockpiles.

Refer to EXHIBIT "D" for the location of all necessary access roads, rig equipment, living facilities, parking areas, and rig orientation.

The drillsite will be identified with a regulation well sign.

Access onto the location will be from the northeast on the derrick laydown side of the location.

10. PLANS FOR RESTORATION OF SURFACE

The top 6" of soil material will be stockpiled as shown on EXHIBIT "C".

10. PLANS FOR RESTORATION OF SURFACE (con't.)

Access road soil will be placed adjacent to the road.

After drilling, all equipment not needed for production will be removed.

The rat hole and mouse hole will be filled immediately after rig release.

Unused portions of the location will be reclaimed as soon as possible. The reserve pit will be dry before rehabilitation is commenced.

The access road will be reclaimed after any surfacing material is removed. The newly constructed road will be closed to traffic after reclamation is accomplished. Existing dirt road will be left in its present condition and not closed to traffic.

Disturbed areas will be recontured to their natural slopes with top soil spread evenly. Prior to seeding, all disturbed areas will be scarified and left with rough surface. Seed will be broadcast or drilled between October 1 and February 28, or as specified by BLM. If broadcast, the seed will be covered with a drag or similar coverage device. As recommended by BLM's Jeff Brown, the following seed mixture will be used:

- 4# Four Wing Salt Bush
- 4# Crested Wheat Grass
- 1# Indian Rice Grass
- 1# Wild Sunflower

A regulation dry hole marker will be installed below ground level as suggested by Mr. Brown.

Any oil in the pit will be removed immediately or fenced and flagged.

11. SURFACE OWNERSHIP

The entire access road and location are on surface owned by the Federal Government and regulated by the Moab Bureau of Land Management office.

12. OTHER INFORMATION

On September 13, 1995, onsite inspection was conducted with Jeff Brown, BLM, and Jerry Keeler, operator's representative, present.

The proposed drillsite lies 1/4 mile north and east of Hatch Wash and is in a flat sagebrush covered area bordered by rocky outcrops.

There are no known occupied dwellings, historical or archeological sites in the impacted area. Archeologist Steve Fuller was present during the location staking and onsite inspection and did reveal he will recommend clearance of the disturbed areas. If historical or archeological sites are uncovered during construction, the operator will be responsible for informing all persons in the area who are associated with the project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. The operator will immediately stop work that might further disturb such materials and contact the authorized officer (AO). Within 5 working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a timeframe for the authorized office to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and the mitigation is appropriate.

12. OTHER INFORMATION (con't.)

If the operator wishes at any time to relocate activities to avoid the expense of mitigation and/or delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

A dike will be constructed completely around the production facilities (i.e. production tanks, water tanks, and/or heater treater). The dikes for the production facilities will be constructed of compacted subsoil, hold the capacity of the largest tank, and be independent of any back cut.

All permanent above-the-ground structures, tank batteries, etc., that will remain longer than 6 months will be painted Desert Brown (Munsell standard color No. 10 yr 6/3). The exception being that the Utah Occupation Health and Safety Act Rules and Regulations are to be complied with where special safety colors are required.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE

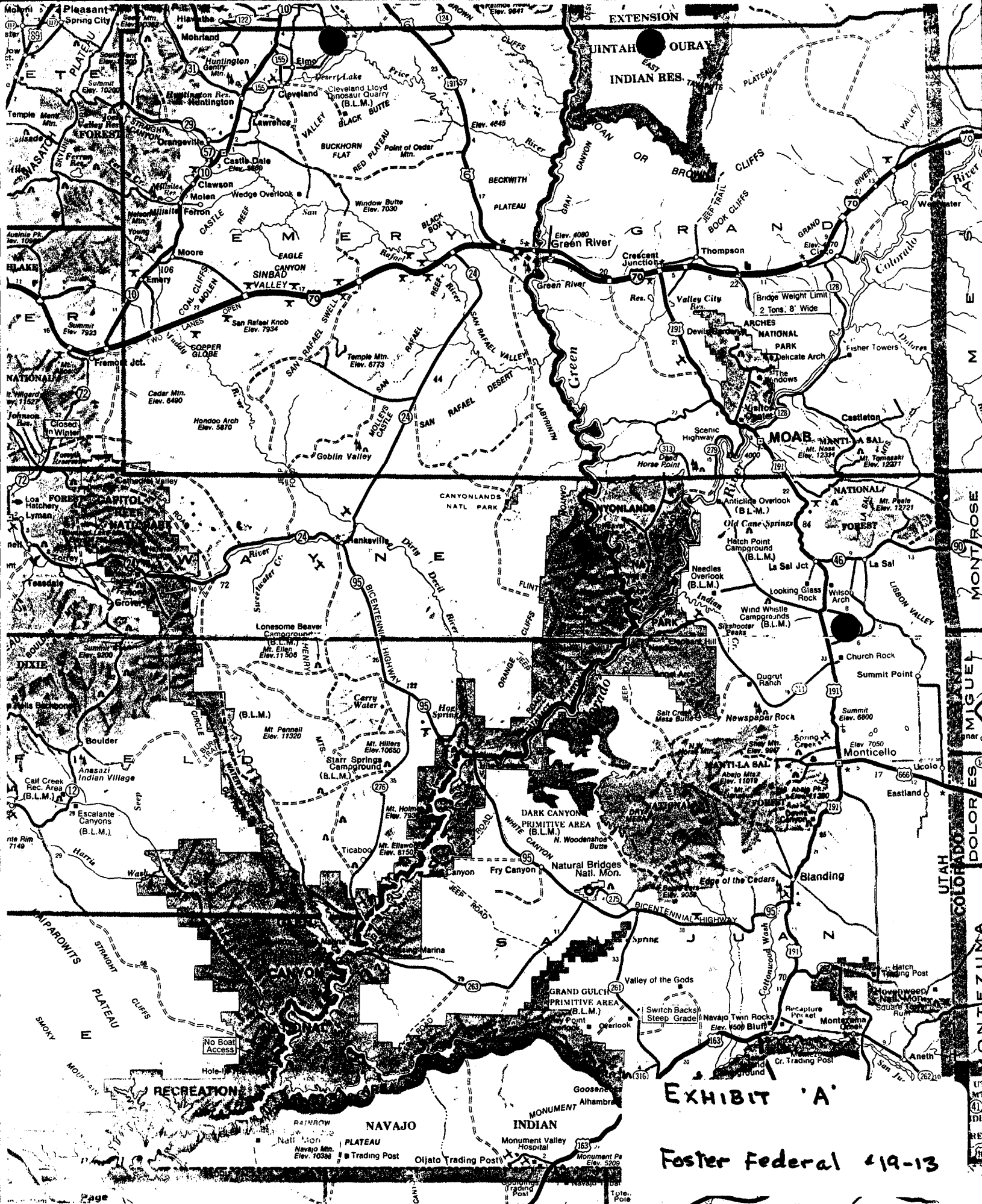
CONLEY P. SMITH OPERATING COMPANY
Bob Vernon, Operations Manager
1125 17th St., Suite 2360
Denver, CO 80202
303-296-1434

NTL-6 REPRESENTATIVE
Jerry Keeler
Box 927
Newcastle, WY 82701
307-746-9337

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed wellsite and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Conley P. Smith Operating Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Name and Title	Bob Vernon Operations Manager	9/19/95 Date
----------------	------------------------------------	-------------------



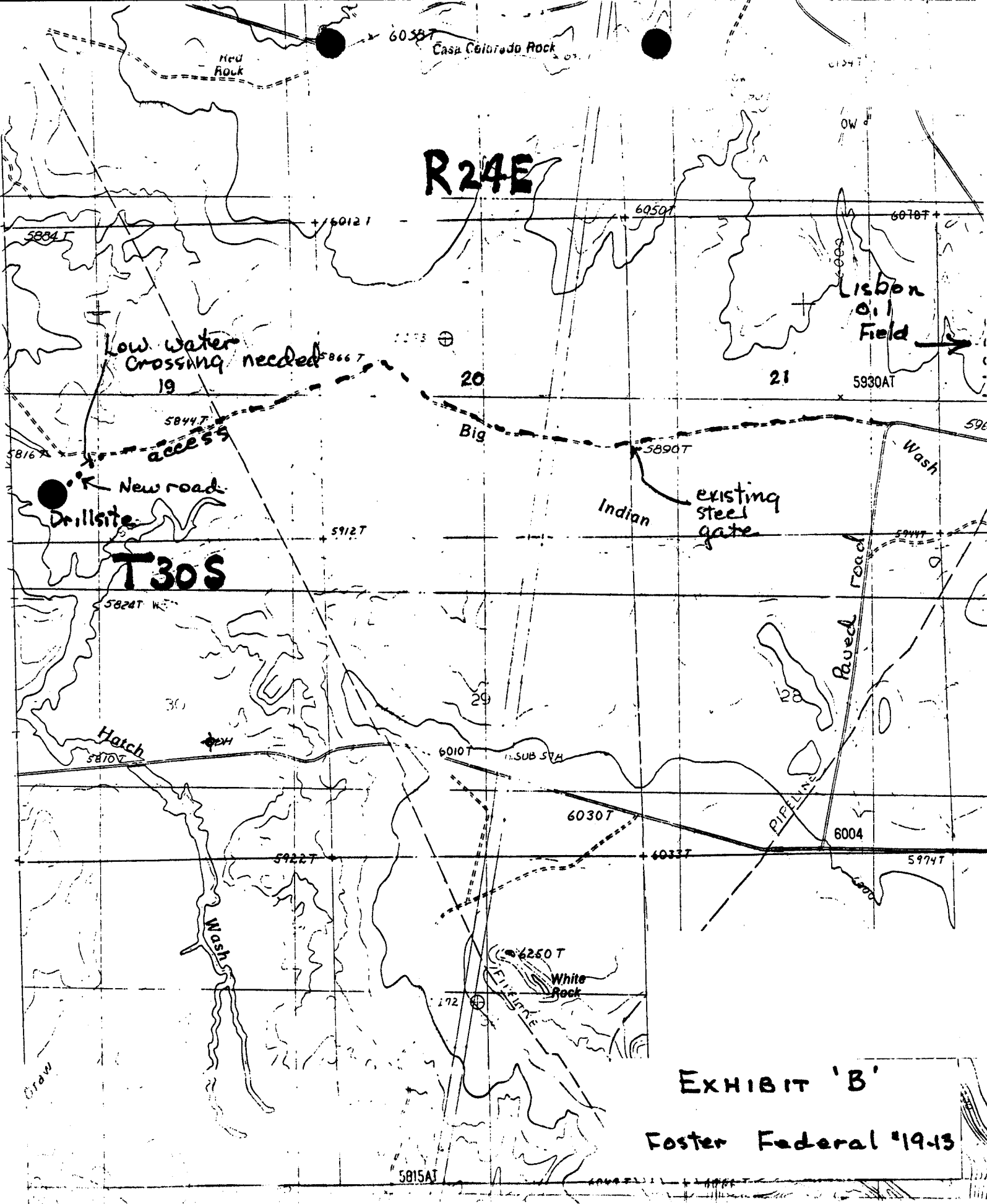


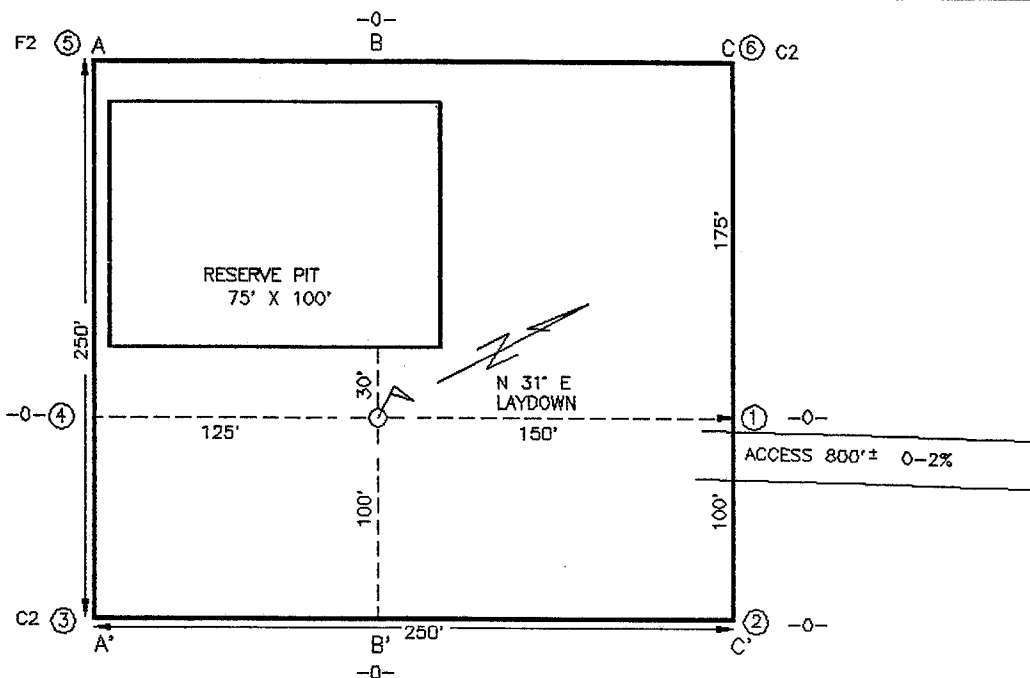
EXHIBIT 'B'

Foster Federal '19-13

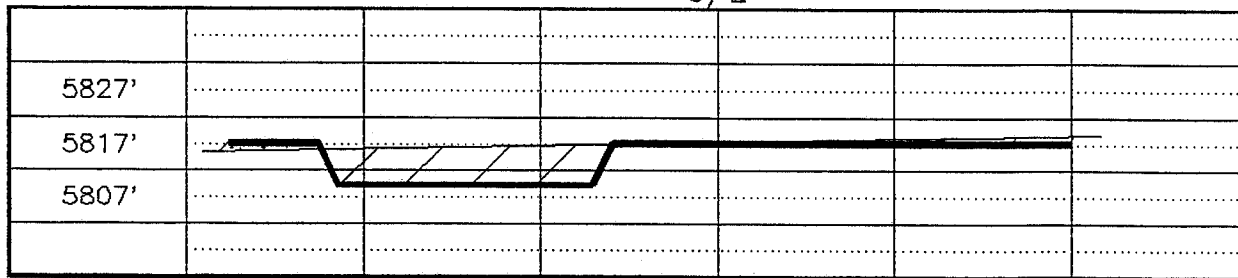
P.O. BOX 6612
FARMINGTON, NEW MEXICO 87402
(505) 325-2654

SURVEYS, INC.

NAME: CONLEY P. SMITH OPERATING CO. FOSTER FEDERAL 19-30
FOOTAGE: 675' FSL 670' FWL
SECTION: 19 T 30 S, R 24 E, SLBPM
COUNTY: SAN JUAN STATE: UTAH
ELEVATION: 5817' DATE: 9/14/95

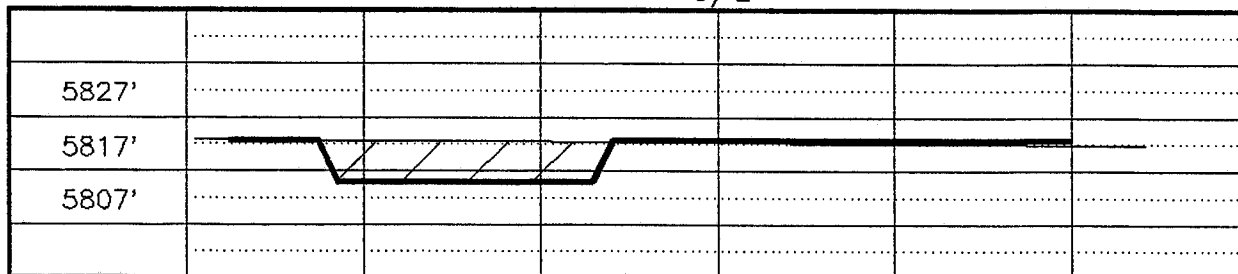

$$A-A'$$

C/L



B-B'

C/L


$$C-C'$$

C/L

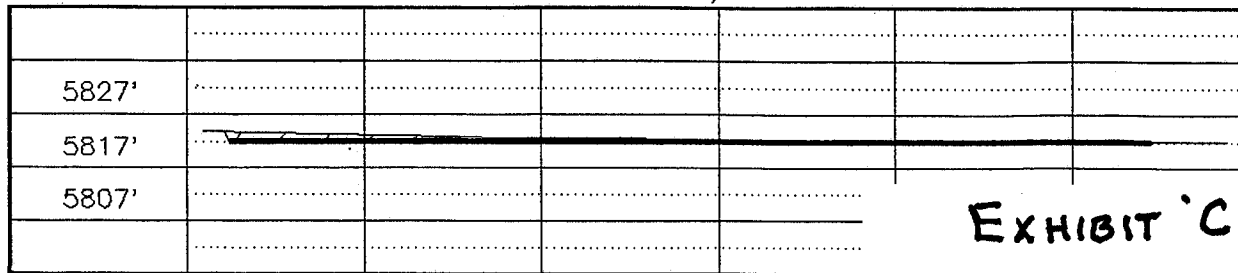
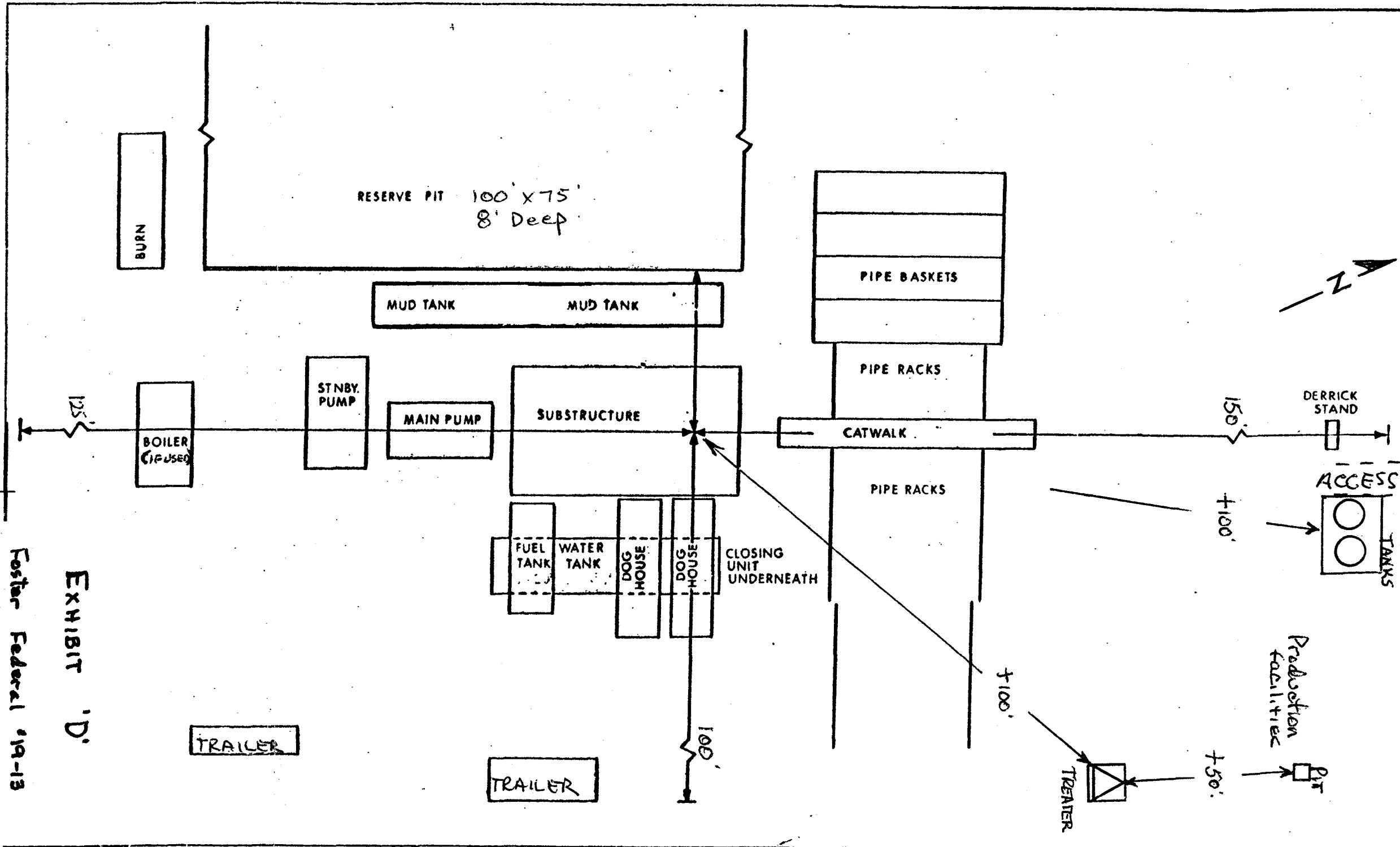


EXHIBIT 'C'

Foster Federal "19-13



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/20/95

API NO. ASSIGNED: 43-037-31767

WELL NAME: FOSTER FEDERAL #19-13

OPERATOR: CONLEY P. SMITH OPERATING (N9150)

PROPOSED LOCATION:

SWSW 19 - T30S - R24E
SURFACE: 0675-FSL-0670-FWL
BOTTOM: 0675-FSL-0670-FWL
SAN JUAN COUNTY
WILDCAT FIELD (001)

LEASE TYPE: FED

LEASE NUMBER: UTU - 71433

PROPOSED PRODUCING FORMATION: PRDX

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
____ Bond: Federal[] State[] Fee[]
 (Number _____)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
 (Number _____)
____ RDCC Review (Y/N)
 (Date: _____)

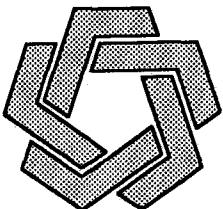
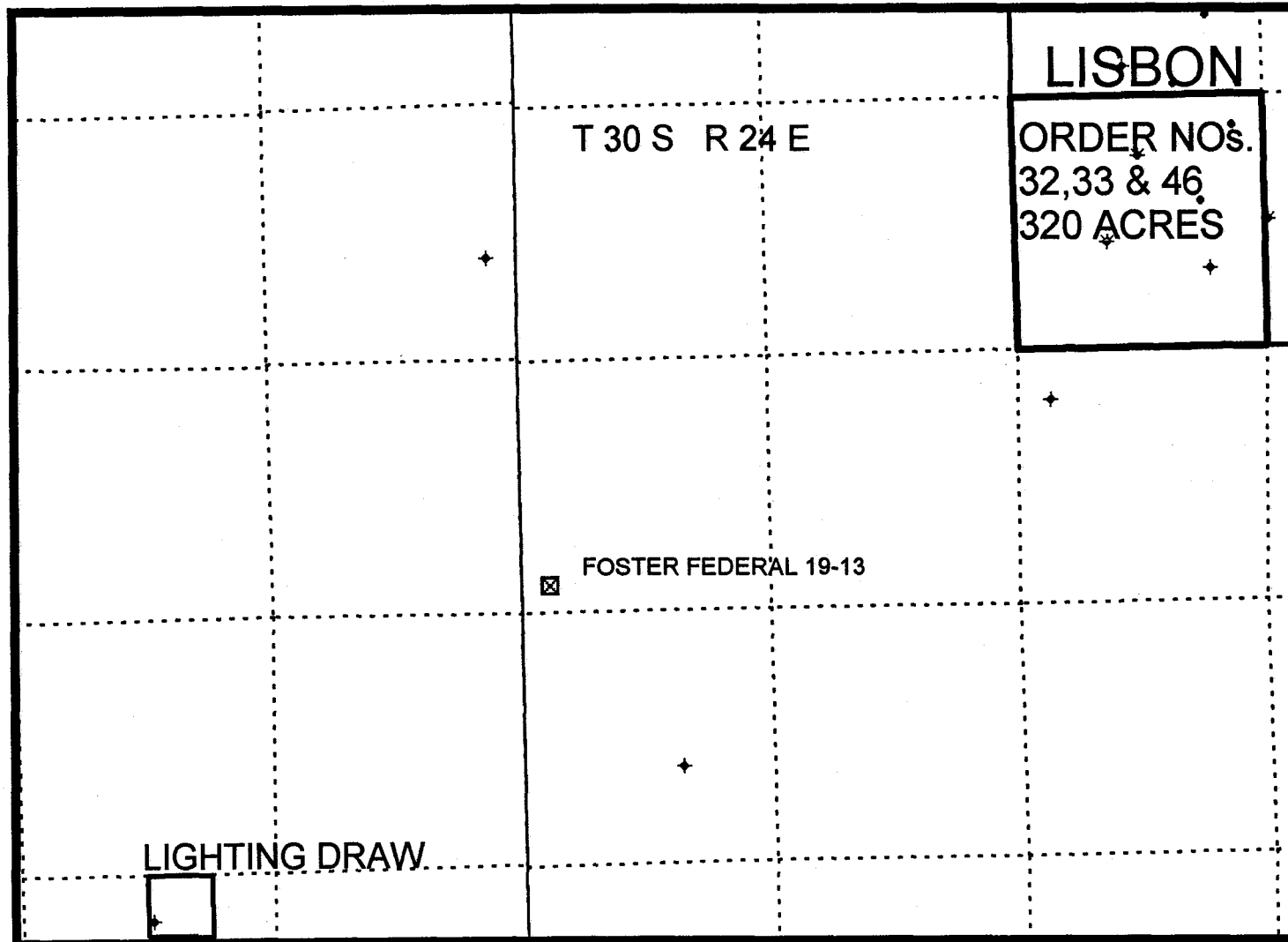
LOCATION AND SITING:

____ R649-2-3. Unit: _____
☒ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
 Board Cause no: _____
 Date: _____

COMMENTS: _____

STIPULATIONS: _____

CONLEY P. SMITH OPERATING
EXPLORATORY DRILLING
SEC. 19, T30S, R24E
SAN JUAN COUNTY. STATE SPACING



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS & MINING

DATE: 9/21/95

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: CONLEY P. SMITH OPER.	Well Name: FOSTER FED 19-13
Project ID: 43-037-31767	Location: SEC. 19 - T30S - R24E

Design Parameters:

Mud weight (9.00 ppg) : 0.468 psi/ft
 Shut in surface pressure : 2287 psi
 Internal gradient (burst) : 0.059 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost	
1	5,600	5.500	15.50	J-55	LT&C	5,600	4.825		
	Collapse Load Strgth S.F. (psi) (psi)			Burst Load (psi)	Min Int Yield Strgth S.F. (psi)	Tension Load Strgth S.F. (kips) (kips)			
1	2618	4040	1.543	2618	4810	1.84	86.80	217	2.50 J

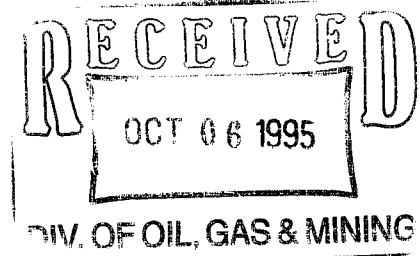
Prepared by : MATTHEWS, Salt Lake City, Utah
 Date : 11-16-1995
 Remarks :

Minimum segment length for the 5,600 foot well is 1,500 feet.
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas
 temperature of 113°F (Surface 74°F , BHT 152°F & temp. gradient 1.400°/100 ft.)
 String type: Production
 The mud gradient and bottom hole pressures (for burst) are 0.468 psi/ft and
 2,618 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general
 guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with
 evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension,
 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension
 was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility
 for use of this design will be that of the purchaser.
 Costs for this design are based on a 1987 pricing model. (Version 1.07)

Conley P. Smith
Operating Company

October 3, 1995



Utah Board of Oil & Gas & Mining
1203--3 Triad Ctr., Suite 350
Salt Lake City, Utah 84180

ATTN: Ronald J. Firth

RE: Lease Serial No. UTU-71433
Surety Bond No. B05499
BLM Bond Number UT1034

Dear Mr. Firth:

Further to your request, we are forwarding a copy of the decision letter from the BLM accepting our Oil and Gas Individual Lease Bond effective September 25, 1995, relative to referenced lease.

Should you need any further information, please contact the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Marilynn Landers".

Marilynn Landers
Lease Records Supervisor

:ml

attachment

CC: Jerry Keeler
Box 927
New Castle, Wyoming 82701



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
324 South State, Suite 301
Salt Lake City, Utah 84111-2303

RECEIVED
SEP 29 1995

IN REPLY REFER TO:

3104

UTU-71433

(UT-923)

SEP 27 1995

DECISION

Principal:

Conley P. Smith Operating Co.
1125 17th Street, Suite 2360
Denver, CO 80202

Lease Serial No.: UTU-71433

Bond Amount: \$10,000

Surety:

Underwriters Indemnity Company
8 Greenway Plaza, Suite 400
Houston, TX 77046

Surety Bond No.: B05499

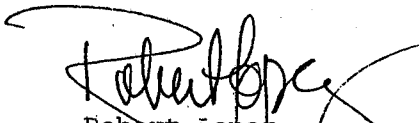
BLM Bond Number: UT1034

Oil and Gas Individual Lease Bond Accepted

A \$10,000 oil and gas bond covering the above principal for oil and gas lease UTU-71433 was filed in this office September 25, 1995. The bond has been examined and is accepted effective the date of filing.

The bond will be maintained by this office and constitutes coverage of all operations conducted by the principal on lease UTU-71433.

If you have any questions, please contact Irene Anderson of this office at 801-539-4108.


Robert Lopez
Chief, Branch of Mineral
Leasing Adjudication

10-3-95

CC: Jerry Keeler
St. of Utah ml

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

CONLEY P. SMITH OPERATING COMPANY

3. ADDRESS AND TELEPHONE NO.

1125-17th St., Suite 2360, Denver, CO 80202 800-648-6421

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

675' FSL & 670' FWL (SWSW)

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10 miles south of LaSal, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

670'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

NA

16. NO. OF ACRES IN LEASE

1470.70

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

Rotary

5. LEASE DESIGNATION AND SERIAL NO.

UTU-71433

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Foster Federal #19-13

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT

Lisbon area

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 19 T30S R24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

24.

SIGNED

Jerry Keeler FOR
Bob Vernon

TITLE

Operations Manager

DATE

9/18/95

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

/S/ WILLIAM C. STRINGER

Associate District Manager

APPROVED BY

TITLE

DATE

NOV 8 1995

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

COMPANY/OPERATOR: CONLEY P. SMITH OPERATING CO.

WELL NAME & NO. FOSTER FEDERAL 19-13

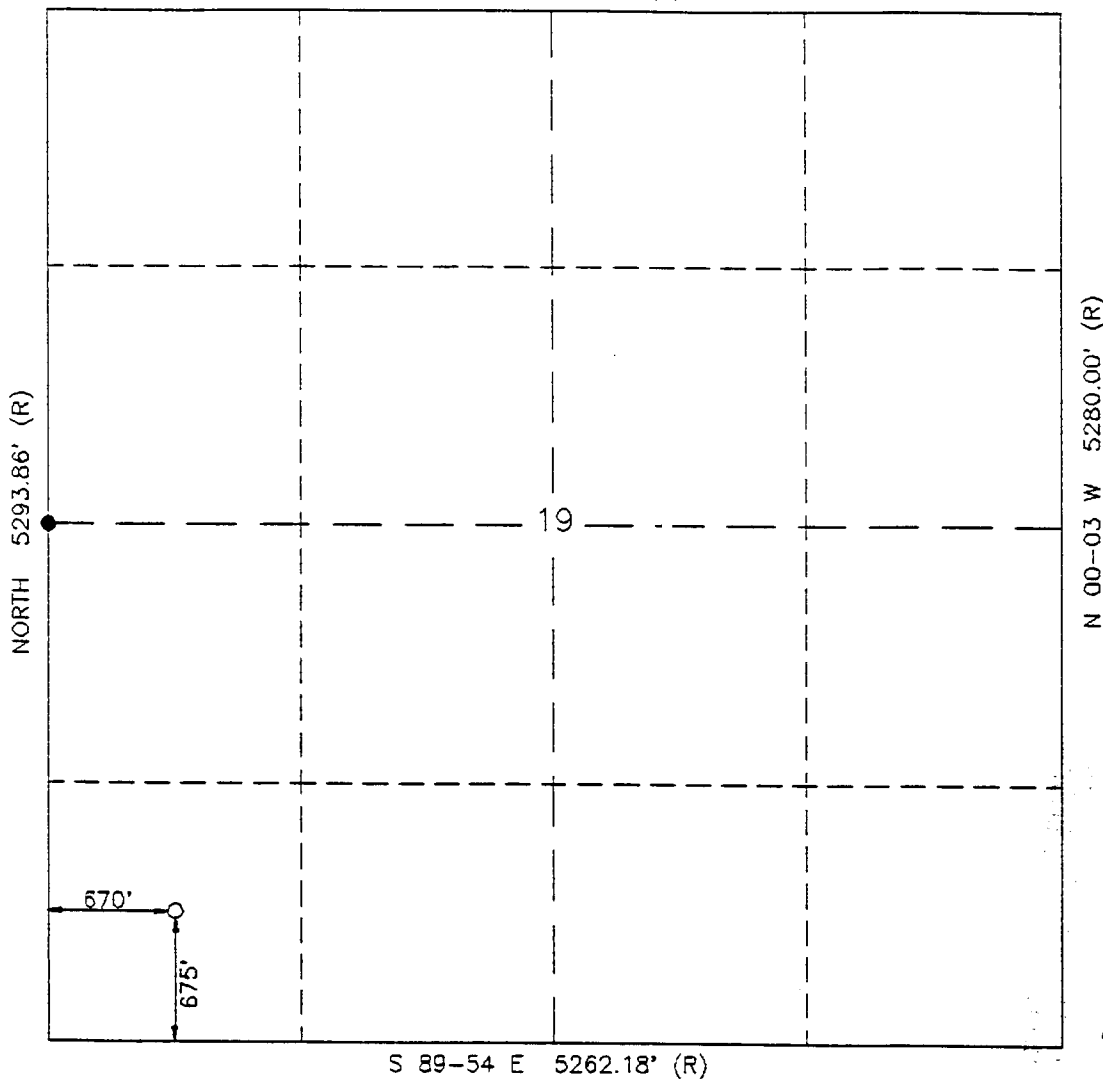
FOOTAGE: 675' FSL 670' FWL

SEC.: 19, TWN: T.30 S., RNG: R.24 E., SLBPM

COUNTY: SAN JUAN, STATE: UTAH

GROUND ELEVATION: 5817'

S 89-49 E 5253.60' (R)



NOTE:

- 1.) BASIS OF BEARING: SOLAR OBSERVATION TAKEN NEAR THE WEST LINE OF SEC. 19 - TIED TO SURVEY BY TRAVERSE.
- 2.) BASIS OF ELEVATION: 1933 U.S.G.S BENCH MARK "B-21" LOCATED IN THE SW/4 OF SEC. 26, T 30 S, R 23 E, = 6004.67'.
- 3.) THERE PRESENTLY EXISTS NO VISIBLE IMPROVEMENTS WITHIN 200 FEET OF THE WELL FLAG LOCATION OTHER THAN THOSE AS SHOWN HEREON OR ON THE ATTACHED PIT AND PAD DIAGRAM.

LEGEND

- = WELL FLAG
- = FOUND 1919 G.L.O. BRASS CAP
- △ = SET AS NOTED
- ⊙ = CALCULATED POSITION

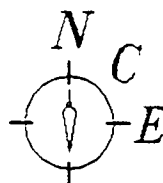
SCALE: 1" = 500'
0' 500' 1000'
250'

I, NEALE C. EDWARDS, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF UTAH, DO HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS OF THE STANDARDS FOR LAND SURVEYS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

7-15-95

DATE

NEALE C. EDWARDS
UTAH R.L.S. #5252



P.O. BOX 6612
FARMINGTON, NEW MEXICO 87402
(505) 325-2654

SURVEYS, INC.

Conley P. Smith Operating Company
Foster Federal No. 19-13
Lease U-71433
SW/SW Section 19, T30S, R24E
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Conley P. Smith Operating Company is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT 1034 (Principal - Conley P. Smith Operating Company) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. The kill line shall be of two-inch diameter or greater, and shall have at least one kill line valve.

2. Although the Ismay zone at this location is not expected to have hydrogen sulfide, H₂S was recently encountered in the Ismay approximately seven miles from your location. This is presumed to be a localized phenomenon resulting from the migration of Mississippian gas along a fault. Nevertheless, caution should be exercised upon penetrating the Ismay

B. SURFACE USE PLAN

1. The operator will contact the San Juan County Road Department for an encroachment permit for the use of San Juan County roads.
2. Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the Area Manager prior to initiating the new surface disturbance.
3. The top 3 inches of topsoil will be stockpiled separately from the vegetation along the side of the location.
4. No reserve pit lining will be required.
5. The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling the drilling rig. If upgraded, the road must be maintained at these standards until the well is properly abandoned. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.
6. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6. When the well is abandoned, the abandonment marker must be at least four feet above restored ground level and must be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).
7. All site security guidelines identified in 43 CFR § 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.
8. If a gas meter run is constructed, it will be located on lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR § 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the Resource Area, Natural Resource Protection Specialist at least 48 hours prior to commencing construction of location.

Spud- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

First Production- Should the well be successfully completed for production, the District Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Resource Area Office. The Resource Area Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the District Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the District Office for approval pursuant to Onshore Oil and Gas Order No. 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the District Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the District Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Office within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Rich McClure at (801) 259-2127 for dirt work and reclamation; and notify Jeff Brown at (801) 587-2141 for the remaining actions:

2 days prior to commencement of dirt work, construction and reclamation;

1 day prior to spudding;

50 feet prior to reaching surface casing depth;

3 hours prior to testing BOPE

If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer	Office: (801) 259-6111
	Home: (801) 259-2214

Gary Torres, Petroleum Engineer	Office: (801) 587-2141
	Home: (801) 587-2705

Conley P. Smith Operating Company
Foster Federal No. 19-13
Lease U-71433
SW/SW Section 19, T30S, R24E
San Juan County, Utah

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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	Home: (801) 259-2214

Gary Torres, Petroleum Engineer	Office: (801) 587-2141
	Home: (801) 587-2705

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Conley P. Smith Operating Company

3. Address and Telephone No.

1125-17th St., Suite 2360, Denver, CO 80202 1-800-648-6421

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

675' FSL & 670' FWL (SWSW)

5. Lease Designation and Serial No.

UTU-71433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Foster Federal #19-13

9. API Well No.

10. Field and Pool, or Exploratory Area

Lisbon field area

11. County or Parish, State

San Juan Co., UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

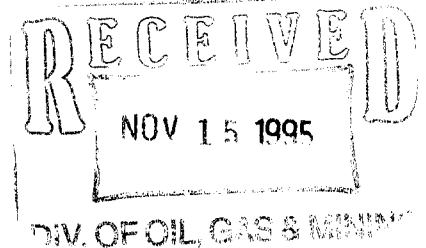
- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

SURFACE PIPE CHANGE

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We are requesting to be allowed to run 1500' of 8 5/8" surface casing in place of the 2000' shown on the APD dated 9/18/95. The 1500' will be cemented with +660 sx of cement and additives as indentified in the APD.



14. I hereby certify that the foregoing is true and correct

Signed **BOB VERNON**

Title **Operations Manager**

Date **9/27/95**

Approved by _____

/S/ WILLIAM C. STRINGER

Title **Associate District Manager**

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Conley P. Smith Operating Company

3. Address and Telephone No.

1125 17th Street, Suite 2360, Denver, Colorado 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

675' FSL & 670' FWL (SW SW) Section 19 T30S, R24E

5. Lease Designation and Serial No.

UTU 71433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Foster Federal #19-13

9. API Well No.

10. Field and Pool, or Exploratory Area

Lisbon Field Area

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

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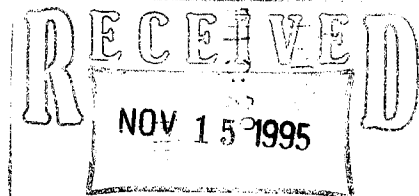
TYPE OF ACTION

- ☐ Abandonment
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(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Total depth of well to be drilled is estimated approximately 400' below the Upper Ismay or top of the salt in the Paradox approximately 5000±.



14. I hereby certify that the foregoing is true and correct

Signed

Title Operations Mgr.

Date 11-3-95

(This space for Federal or State office use)

Approved by

Title

Branch of Fluid Minerals
Moab District

Date

NOV 8 1995

Conditions of approval, if any:

ACCEPT
APPROVE w/SPD: ecj 11/7/95

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

November 16, 1995

Conley P. Smith Operating Company
1125 17th Street, Suite 2360
Denver, Colorado 80202

Re: Foster Federal 19-13 Well, 675' FSL, 670' FWL, SW SW, Sec. 19, T. 30 S,
R. 24 E., San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31767.

Sincerely,


R. J. Firth
Associate Director

lwp

Enclosures

cc: San Juan County Assessor

Bureau of Land Management, Moab District Office

WAPD



Operator: Conley P. Smith Operating Company
Well Name & Number: Foster Federal 19-13
API Number: 43-037-31767
Lease: Federal UTU-71433
Location: SW SW Sec. 19 T. 30 S. R. 24 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: CONLEY SMITH OPERATING

Well Name: FOSTER FEDERAL 19-13

Api No. 43-037-31767

Section 19 Township 30S Range 24E County SAN JUAN

Drilling Contractor FORE CORNERS

Rig # 7

SPUDDED: Date 12/5/95

Time 10:00 PM

How ROTARY

Drilling will commence

Reported by BOB MOORE

Telephone #

Date: 12/5/95 SIGNED: FRM

43-037-31767

CONLEY P. SMITH OPERATING COMPANY
DAILY DRILLING REPORT

Foster Federal #19-13
S.W. Lisbon Prospect
Section 19, T30S-R24E
San Juan County, Utah
AFE No. 31001
Casing Point Date:

To File

	Present Depth	
12-01-95	0'	Day 0. (1) <u>Knut & Sons Dirt Contractors</u> : Started building roads & location on 11-29-95. Should complete dirtwork on 12-4-95. (2) <u>Drilling Contractor</u> : Four Corners Drilling Co. Expects to MI rig #6 or #7 & spud well approximately 12-6-95. (3) <u>Company Drilling Foreman</u> : Bob Moore - Cellular: 801-770-1469. Rig Time: 24 hrs., Total: 24 hrs. <u>APL #43-037-31767</u> . Daily Cost: \$1850. Cum Cost: \$5300.
12-02-95	0'	Building road & location.
12-03-95	0'	Building road & location.
12-04-95	0'	Will finish building road & location and start MI rig Tuesday, 12-5-95. Cum. Cost: \$17,900.
12-05-95	0'	Day 0. MI Four Corners Drilling Company Rig #7. Finished hauling in gravel over gas pipeline crossings. Finished location & reserve pit. Started MI Four Corners Rig #7. Should spud well tonight or Wednesday morning. Rig Time: 24 hrs. Finished location & MI rig. Total: 24 hrs. Daily Cost: \$1500. Cum. Cost: \$19,400.
12-06-95	370'	Day 1. Drilling. Drilled 370' in last 24 hrs. Formations: Sand & rock. Mud Wt. Water. Daily Water Cost: \$1200. Cum. Water Cost: \$1200. Bit 1-A 12-1/4" Reed HP-51. Made 370' in 6 hrs. (61.6'/hr.). Wt. on bit 10,000#, RPM 110, Pump Pressure 1400, SPM 60, Liner Size 6 x 8". Surveys: 1 degree @ 101', 1 degree @ 252'. String Assembly 3-8" D.C. & 12-6-1/2" D.C. Put up fence along pipeline right-of-way to keep trucks off pipelines. SD moving in rig to build up third pipeline crossing for 2 hrs.; order by Napco & BLM. Finish digging reserve pit. MI & RU. Spudded well @ <u>10:30 p.m. 12-5-95</u> . Rig Time: Drilling 6 hrs., Rig Serv. 1/2 hr., Surveys 1/2 hr., Total: 7 hrs. from spud. Daily Cost: \$10,962. Cum. Cost: \$30,362.
12-07-95	1510'	Day 2. Running 8-5/8" surface csg. Made 1140' in last 24 hrs. Formations: Rock & sand. Mud Wt. Water. Bit 1-A 12-1/4" Reed HP-51 (New) made 1510' in 27-3/4 hrs. (54.4'/hr.). Wt. on bit 50,000#, RPM 110, Pump Press. 1600, SPM 60, Liner Size 6". Surveys: 1 degree @ 553' & 950'. String Assembly: Bit & drill collars. No signs of water while drilling surface csg. Rig Time: Drilling 21-3/4 hrs., Tripping 1 hr., Rig. Serv. 1/4 hr., Circ. 1/4 hr., Surveys 3/4 hr., Total 24 hrs. Daily Water Cost: \$1750, Cum. Water Cost: \$2950. Daily Mud Cost: \$1500, Cum. Mud Cost: \$1500. Daily Cost: \$44,685, Cum. Cost: \$75,047.
12-08-95	1510'	Day 3. GIH w/7-7/8" bit. Made 0' in last 24 hrs. Mud Wt. water. Bit #1 7-7/8" ST F-2 (new) made 0'. Surveys: 1/2 degree @ 1510'. Ran 37 jts. of 8-5/8" 24# J surface csg. (1510'). Ran Dowell Guide Shoe & insert float. Landed csg. @ 1510' KB. Ran 10 latch on centralizers @ 1491', 1387', 1268', 1150', 1027', 913', 788', 663', 541', & 471'. RU Dowell & cemented csg. w/565 sxs of Class "C" Lite w/6% Poz, 2% Kcl & .25#/sx of D-29. Tailed in w/200 sxs of Class "G" w/2% Kcl & .25#/sx D-29 @ 6 BPM. Displaced cement w/fresh water. Bumped plug @ 860 psi--held OK. Had good cement returns (approx. 11 bbls. excess). Job completed @ 11:00 a.m. 12-7-95. Cut off csg. & weld on 11"

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12-08-95 (cont'd)	1510'	3000 psi head. NU & test BOP & manifold to 2000 psi. Tested out OK. Rig Time: Tripping 1 hr., Repairs 5 hrs., Test BOP 4.5 hrs., WOC 4 hrs., Run 8-5/8" csg. 3 hrs., Cementing 8-5/8" csg. 2 hrs., Well on head & NU 4.5 hrs., Total 24 hrs. Daily Cost: \$15,232 Cum. Cost: \$90,279
12-09-95	2660'	Day 4. Drilling. Made 1150' in last 24 hrs. Sand & shale. Mud Wt. 8.7. Bit #1 7-7/8" Smith F-2 (new) made 1150' in 21-1/2 hrs. (53.5'/hr.). Wt. on Bit 42,000, RPM 75, Pump Press. 1500, SPM 102, Liner Size 6". Surveys: 3/4 degree @ 1986' & 1-1/4 degree @ 2487'. String Assembly: 20 6-1/2" D.C. Mud logger is on location. Rig Time: Drilling 21-1/2 hrs., Rig Serv. 1/2 hr., Surveys 1/2 hr., Drill Cement 1-1/2 hrs., Total 24 hrs. Daily Water Cost: \$0 Cum. Water Cost: \$3610 Daily Mud Cost: \$1301 Cum. Mud Cost: \$2801 Daily Cost: \$28,551 Cum. Cost: \$118,830
12-10-95	3600'	Day 5. Drilling. Made 940' in last 24 hrs. Sand & shale. Mud Wt. 8.7. Bit #1 7-7/8" Smith F-2 (new) made 2090' in 44-1/2 hrs. (46.9'/hr.). Wt. on Bit 42,000, RPM 75, Pump Press. 1550, SPM 102, Liner Size 6". Surveys: 1-1/4 degrees @ 2991' & 3524'. String Assembly: 20 6" D.C. Rig Time: Drilling 23-1/4 hrs., Rig Serv. 1/4 hr., Surveys 1/2 hr., Total 24 hrs. Daily Water Cost: \$780 Cum. Water Cost: \$4390 Daily Mud Cost: \$483 Cum. Mud Cost: \$3284 Daily Cost: \$25,096 Cum. Cost: \$143,926
12-11-95	4150'	Day 6. Drilling. Made 550' in last 24 hrs. Sand & shale. Mud Wt. 8.7, Vis 29. Bit #1 7-7/8" Smith F-2 (new) in @ 1510-3907' made 2397' in 51-1/2 hrs. (46.5'/hr.). Bit #2 7-7/8" Smith F-3 (new) in @ 3907-4150' made 243' in 7-3/4 hrs. (311.2'/hr.). Wt. on Bit 42,000, RPM 75, Pump Press. 1550, SPM 102, Liner Size 6". Surveys: 1-1/2 degrees @ 4021'. String Assembly: 20 6" D.C. Will mud-up @ 4250'. RU flare line & test line. Formation Top by wellsite geologist: Missouri - 3906'. Rig Time: Drilling 14-3/4 hrs., Tripping 4 hrs., Rig Serv. 1/2 hr., Repairs 4 hrs., Surveys 1/4 hr., Wash to bottom 1/2 hr., Total 24 hrs. Daily Water Cost: \$0 Cum. Water Cost: \$4390 Daily Mud Cost: \$265 Cum. Mud Cost: \$3549 Daily Cost: \$14,344 Cum. Cost: \$158,270
12-12-95	4575'	Day 7. Drilling. Made 425' in last 24 hrs. Honkko Trail. Mud Wt. 8.8, Vis 36, WL 12, PH 9.5. Bit #2 7-7/8" Smith F-3 (new). In @ 3907-4575' made 668' in 30-1/2 hrs. (20.9'/hr.). Wt. on Bit 42,000, RPM 70, Pump Press. 1650, SPM 102, Liner Size 6". Survey: 3/4 degree @ 4521'. String Assembly 20 6" D.C. Mud up @ 4250'. Rig Time: Drilling 22-3/4 hrs., Rig Serv. 3/4 hr., Survey 1/2 hr., Total 24 hrs. Daily Water Cost: \$0 Cum. Water Cost: \$4390 Daily Mud Cost: \$1407 Cum. Mud Cost: \$4956 Daily Cost: \$12,627 Cum. Cost: \$170,897

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12-13-95	4920'	Day 8. Drilling. Made 345' in last 24 hrs. Lower Ismay. Mud Wt. 8.9, Vis 36, WL 10, PH 12, FC 2/32. Bit #2 7-7/8" Smith F-3 (new) in @ 3907-4920'. Made 1013' in 54 hrs. (18.7'/hr.). Wt. on Bit 42,000, RPM 72, Pump Press. 1700, SPM 102, Liner Size 6.

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12-13-95 (cont'd)	4920'	String Assembly 20 6" D.C. Fmn. Tops by Wellsite Geologist: Upper Ismay - 4728', Lower Ismay - 4885'. Background gas runs from 10-175 units. Rig Time: Drilling 23-1/2 hrs., Rig Serv. 1/2 hr., Total 24 hrs. Daily Water Cost: \$0 Cum. Water Cost: \$4390 Daily Mud Cost: \$1033 Cum. Mud Cost: \$5989 Daily Cost: \$10,073 Cum. Cost: \$180,970

43-037-31967

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12-14-95	4991'	<p>Day 9. Made 71' in last 24 hrs. GIH w/DST #1. Lower Ismay. Mud Wt. 9.0, Vis 55, WL 10, PH 10, FC 2/32, Solids 5, CL 240, PV 16, YP 14, Gels 7/16, Oil 0, LCM 0, Sand .25. Bit #2 7-7/8" Smith F-3 (new) in @ 3907-4991'. Made 1084' in 59 hrs. (18.4' per hr.). Wt. on Bit 42,000, RPM 72, Pump Press. 1700, SPM 102, Liner Size 6". Survey: Misrun @ 4991'. String Assembly: Baker Oil Tool DST Tools w/6" D.C. Top of Lower Ismay by well- site geologist - 4963'. Had drlg. break (5 min./ft. to 1-3 min./ft.) from 4975-4980' (w/3' of good drlg. break). Circ. bottoms up. Drill 10' & circ. samples up from 4990'. Had good shows in samples. Gas increased from 10-380 units. Decided to run DST. Made trip to surface. GIH & LD bad drill pipe. Condition hole & mud for DST #1 from 4930-4991'. POH & PU DST tool. GIH w/DST tool for DST #1. Rig Time: Drilling 5 hrs., Tripping 6-1/2 hrs., Rig Serv. 1/4 hr., Circ. 6-1/4 hrs., Mixing Mud 3-1/2 hrs., Survey 1/4 hr., LD Drill Pipe 1-1/4 hrs., PU Test Tool 1 hr., Total 24 hrs.</p> <table border="0"> <tr> <td>Daily Water Cost:</td> <td>\$600</td> <td>Cum. Water Cost:</td> <td>\$4990</td> </tr> <tr> <td>Daily Mud Cost:</td> <td>\$1439</td> <td>Cum. Mud Cost:</td> <td>\$7428</td> </tr> <tr> <td>Daily Cost:</td> <td>\$7368</td> <td>Cum. Cost:</td> <td>\$188,338 ✓</td> </tr> </table>	Daily Water Cost:	\$600	Cum. Water Cost:	\$4990	Daily Mud Cost:	\$1439	Cum. Mud Cost:	\$7428	Daily Cost:	\$7368	Cum. Cost:	\$188,338 ✓
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DEC-14-95 THU

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P. 01

ATTN KEN/BOB

ROCKY MOUNTAIN GEO-ENGINEERING CORP.

2450 Industrial Blvd.
Grand Junction, Colorado 81505
(973)243-3044

ZONE OF INTEREST SHEET

ZONE OF INTEREST NO 1COMPANY CONLEY P. SMITH OPERATING CO.
WELL FOSTER FEDERAL #19-13
LOCATION SW SW SEC.19, T30S-R24EINTERVAL From: 4963 To: 4978
DRILL RATE Above 3 M/FT Thru 2.5 TO 1.25 M/FT Below 5 M/FT

MUD GAS - CHROMATOGRAPH DATA

	Total	C1	C2	C3	C4	C5	Other
Before	61	3101	413	220	25	NONE	
During	450	22886	3046	1623	183	TSIM	
After	74	3747	499	266	30	NONE	

Type gas increase: Gradual ☐ Sharp ☒
Variation in zone: Steady ☒ Erratic ☐ Increase ☐ Decrease ☐

Fluorescence: Mineral ☐ Even ☒ Cut ☐ Stream ☐
 none ☐ Spotty ☒ none ☐ slow ☒
 poor ☐ poor ☐ mod ☐
 fair ☒ fair ☐ fast ☐
 good ☐ good ☐
 % in spl 70 color MILKY YEL
 % in lith 50 TR SLOW DIP
 color

Stain none ☐ poor ☒ fair ☐ good ☐ live ☒ dead ☐
res ☐ even ☐ apty ☒ light ☐ dark ☐Porosity poor ☐ fair ☐ good ☒ Kind: INTXL-RR PP VUGLITHOLOGY DOL-lt-mbrn, mixed-miesuc, occ vfd, sl anhy, shy ip, v sl slty; LS-erm-wh-tan, crpxl-mic
xl-miesuc, sl dol, cln, v sl anhy SAMPLE QUALITY: GOODNotified KEN ROBERTS @ 11:30 Hrs. Date: 12/13/95Remarks BEST DRILLING BREAK VERY THIN (3'); SAMPLE SHOW SLIGHTLY WEAKZone described by DAVE MEADE

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12-14-95	4991'	<p>Day 9. Made 71' in last 24 hrs. GIH w/DST #1. Lower Ismay. Mud Wt. 9.0, Vis 55, WL 10, PH 10, FC 2/32, Solids 5, CL 240, PV 16, YP 14, Gels 7/16, Oil 0, LCM 0, Sand .25. Bit #2 7-7/8" Smith F-3 (new) in @ 3907-4991'. Made 1084' in 59 hrs. (18.4' per hr.). Wt. on Bit 42,000, RPM 72, Pump Press. 1700, SPM 102, Liner Size 6". Survey: Misrun @ 4991'. String Assembly: Baker Oil Tool DST Tools w/6" D.C. Top of Lower Ismay by well- site geologist - 4963'. Had drlg. break (5 min./ft. to 1-3 min./ft.) from 4975-4980' (w/3' of good drlg. break). Circ. bottoms up. Drill 10' & circ. samples up from 4990'. Had good shows in samples. Gas increased from 10-380 units. Decided to run DST, Made trip to surface. GIH & LD bad drill pipe. Condition hole & mud for DST #1 from 4930-4991'. POH & PU DST tool. GIH w/DST tool for DST #1. Rig Time: Drilling 5 hrs., Tripping 6-1/2 hrs., Rig Serv. 1/4 hr., Circ. 6-1/4 hrs., Mixing Mud 3-1/2 hrs., Survey 1/4 hr., LD Drill Pipe 1-1/4 hrs., PU Test Tool 1 hr., Total 24 hrs.</p> <table><tr><td>Daily Water Cost:</td><td>\$600</td><td>Cum. Water Cost:</td><td>\$4990</td></tr><tr><td>Daily Mud Cost:</td><td>\$1439</td><td>Cum. Mud Cost:</td><td>\$7428</td></tr><tr><td>Daily Cost:</td><td>\$7368</td><td>Cum. Cost:</td><td>\$188,338</td></tr></table>	Daily Water Cost:	\$600	Cum. Water Cost:	\$4990	Daily Mud Cost:	\$1439	Cum. Mud Cost:	\$7428	Daily Cost:	\$7368	Cum. Cost:	\$188,338
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12-15-95	5030'	<p>Day 10. Made 34' in last 24 hrs. Logging. Lower Ismay. Mud Wt. 9.0, Vis 55, WL 10, PH 10, FC 2/32, Solids 5, PV 16, YP 14, Gels 7/16, Sand Trace. Bit #2 7-7/8" Smith F-3 (used) in @ 3907- 5030'. Made 1123' in 63 hrs. (17.8'/hr.). Wt. on Bit 42,000, RPM 70, Pump Press. 1700, SPM 102, Liner Size 6". Survey: 3/4 degree @ 5030'. Ran DST #1 from 4930-4991' (Lower Ismay). Opened test tool @ 8:24 a.m. 12-14-95. Opened w/1" blow, 3" blow after 4 min., 8" after 6 min. BB-10 min., 6 oz. psi-12 min. & 7 oz. after 15 min. IF - 15 min., FF - 60 min., ISI - 60 min., FSI - 120 min. Opened tool for final flow at 9:41 a.m. Strong blow. 15 oz. after .5 min., 14 oz. after 5 min., 11 oz. in 10 min., 10 oz. in 15 min., 8 oz. in 20 min., 7 oz. in 25 min., 6 oz. in 30 min., 5 oz. in 40 min., & 5 oz. to end of final flow. Close tool for 2 hrs. Pulled packers loose & POH. Results of DST #1 as follows:</p> <table><tr><td><u>Initial</u></td><td><u>Final</u></td></tr><tr><td>IH - 2393' psi</td><td>FH - 2317' psi</td></tr><tr><td>IF - 67-90' psi</td><td>FF - 81-106' psi</td></tr><tr><td>ISI - 221' psi</td><td>FSI - 292' psi</td></tr></table> <p><u>Drill Pipe Recovery:</u> Recovered 150' of mud. 60' was slightly oil & heavy GC mud. Recovered 750' of gas (no gas to surface). Top Sample - Rw = .52 @ 70 degrees F (12,000 PPM) Bottom Sample - Rw = .70 @ 55 degrees F (10,000 PPM) <u>Sampler Recovery:</u> Pressure in Sampler - 50 psig Total Volume of Sampler - 2500 cc</p>	<u>Initial</u>	<u>Final</u>	IH - 2393' psi	FH - 2317' psi	IF - 67-90' psi	FF - 81-106' psi	ISI - 221' psi	FSI - 292' psi				
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12-15-95 (cont'd)	5030'	Recovery Volume in Sampler - 2200 cc of mud w/trace of oil & gas. Rw = .6 @ 58 degrees F (12,000 PPM) Make up water Rw = 3.5 @ 50 degrees F (2200 PPM) Mud Pit Rw = .40 @ 72 degrees F (15,000 PPM) BHT = ----- degrees F Good Mechanical Test Drill to 5030' & condition hole for logging. Now running 1st log. Loggers TD = 5,034'. Driller TD = 5030'. Rig Time: Drilling 4 hrs., Tripping 9-1/2 hrs., Rig Serv. 1/4 hr., Circ. 2 hrs., DST #1 4-1/4 hrs., POH w/DST & LD Test Tools 3-1/2 hrs., Survey 1/4 hr., Logging 1/4 hr., Total 24 hrs. Daily Water Cost: \$3645 Cum. Water Cost: \$8635 Daily Mud Cost: \$363 Cum. Mud Cost: \$7791 Daily Cost: \$10,391 Cum. Cost: \$190,729

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Well File

	Present Depth																
12-15-95 (cont'd)	5030'	<p>Recovery Volume in Sampler - 2200 cc of mud w/trace of oil & gas. Rw = .6 @ 58 degrees F (12,000 PPM) Make up water Rw = 3.5 @ 50 degrees F (2200 PPM) Mud Pit Rw = .40 @ 72 degrees F (15,000 PPM) BHT = ----- degrees F Good Mechanical Test Drill to 5030' & condition hole for logging. Now running 1st log. Loggers TD = 5,034'. Driller TD = 5030'. Rig Time: Drilling 4 hrs., Tripping 9-1/2 hrs., Rig Serv. 1/4 hr., Circ. 2 hrs., DST #1 4-1/4 hrs., POH w/DST & LD Test Tools 3-1/2 hrs., Survey 1/4 hr., Logging 1/4 hr., Total 24 hrs. Daily Water Cost: \$3645 Cum. Water Cost: \$8635 Daily Mud Cost: \$363 Cum. Mud Cost: \$7791 Daily Cost: \$10,391 Cum. Cost: \$190,729</p>															
12-16-95	5030'	<p>Day 11. P & A. Mud Wt. 9.0, Vis 50, WL 10, PH 9.5, FC 2/32, Solids 5, PV 7, YP 6, Liner Size 6". String Assembly: Completed logging well w/Schlumberger. Ran Dual Induction GR & Compensated Neutron-GR/Litho-Density-Caliper logs. Permission to P & A obtained from Gary Tornes w/BLM @ 10:00 a.m. 12-15-95. Well was P & A as follows:</p> <table border="0"> <thead> <tr> <th>Plug #</th> <th>Sxs of Cement</th> <th>Depth</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>155</td> <td>5034-4637'</td> </tr> <tr> <td>2</td> <td>94</td> <td>3305-3011'</td> </tr> <tr> <td>3</td> <td>40</td> <td>1560-1460'</td> </tr> <tr> <td>4</td> <td>10</td> <td>50' to surface</td> </tr> </tbody> </table> <p>P & A operations witnessed by Mr. Jeff Brown w/the BLM. Rig Time: Tripping 3 hrs., Logging 6-1/2 hrs., WOC 4 hrs., LD Dcs 2- 1/4 hrs., Set Cement Plugs to P & A 8-1/4 hrs., Total 24 hrs. Daily Water Cost: \$800 Cum. Water Cost: \$9435 Daily Mud Cost: \$0 Cum. Mud Cost: \$7791 Daily Cost: \$15,308 Cum. Cost: \$206,037</p>	Plug #	Sxs of Cement	Depth	1	155	5034-4637'	2	94	3305-3011'	3	40	1560-1460'	4	10	50' to surface
Plug #	Sxs of Cement	Depth															
1	155	5034-4637'															
2	94	3305-3011'															
3	40	1560-1460'															
4	10	50' to surface															
12-17-95	0' P & A	<p>Day 12. Release rig. Fence 4th side of reserve pit & install dry hole marker. <u>Released rig @ 10:30 a.m. 12-16-95.</u> Rig Time: Finish P & A well 2 hrs., Clean mud tanks, etc. 2-1/2 hrs., Total 4-1/2 hrs. <u>FINAL REPORT.</u> Attached is Schlumberger's Log Analysis. Daily Cost: \$9119 Cum. Cost: \$215,156</p>															

Log Analysis

COMPANY CONLEY P. SMITH OPERATING CO. (APOLLO)										WELL FOSTER FED #19-13			
FIELD				COUNTY SAN JUAN						STATE UTAH			
DEPTH				R _w		R _T		Φ _D	Φ _N		% POROSITY	% WATER	REMARKS
4816-18				.05		11		8	25		16.5	41	hydrocarbo
4818-20						20		4	20		12	42	"
4826-28						5		4	23		13.5	74	wet
4828-30						3		6	23		14.5	89	"
4830-32						3		6	24		15	86	"
4832-34						4		9	22		15.5	72	"
4834-36						5.5		2	21		11.5	83	"
4836-38						6		6	21		13.5	68	"
4838-40						8		3.5	18		11	72	"
4840-42						20		2	16		9	56	"
4960-62						12		0	13		7	92	wet
4962-64						30		-3	10		4.5	91	"
4964-66						100		-3	2		0.5	-	
4966-68						150		-3	2		0.5	-	
4968-70						130		0	6		3.5	56	wet
4970-72						130		-1	5		2.5	78	"
4972-74						300		1	5		3.5	37	show
4974-76						600		1	6		4	23	show
4976-78						700		0	6.5		4	21	"
4978-80						200		1	9		5	32	"

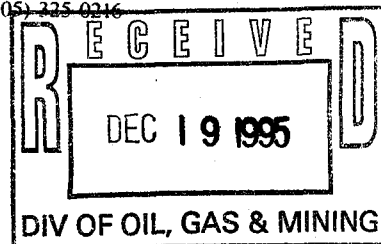
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

DATE 15 DEC 95 LOCATION DENVER ENGINEER *Joe Poole*



well file

Post Office Box 718
Farmington, New Mexico 87499
1732 East Main Street
Farmington, New Mexico 87401
Telephone (505) 225-0216



COMPANY NAME: Conley P. Smith

WELL NAME: Foster Fed. 19-13 CONTRACTOR: Four Corners #7

DST NO.: 1

K.B. ELEVATION:

SPOT: SW SW

FORMATION: Lower Ismay

SEC.: 19

TWP.: 30S

RNG.: 24E

FIELD:

COUNTY: San Juan

STATE: Utah

FLOW NO. 1: 15 MIN.

SHUT-IN NO. 1: 60 MIN.

FLOW NO. 2: 60 MIN.

SHUT-IN NO. 2: 120 MIN.

BOTTOM HOLE TEMP.: 110

TOP CHOKE: 1/8

BOTTOM CHOKE: 3/4

SIZE HOLE: 7 7/8

CASING SIZE & WT.: 8 5/8 36#

SIZE & WT. D.P. OR TUBING: 4 1/2 16.6#

I.D. OR D.C.: 2 1/4

LENGTH OF D.C. ABOVE TOOL: 568

TOTAL DEPTH: 4990

INTERVAL TESTED: 4930 - 4990

TYPE OF TEST: Bottom Hole Conventional DST

MUD WEIGHT: 9.0+

VISCOSITY: 55

TOOL OPENED @: 08:24:00

COMPANY NAME: Conley P. Smith
WELL NAME: Foster Fed. 19-13
DST NO.: 1

SAMPLE DATA

SAMPLE CHAMBER:

CAPACITY OF SAMPLE CHAMBER...	2500 CC
VOLUME OF SAMPLE.....	2200 CC
PRESSURE IN SAMPLER.....	50 PSIG
WHERE SAMPLER WAS DRAINED.....	Rig

SAMPLER CONTAINED: 2200 cc Oil & Gas cut mud

RESISTIVITY DATA:

TOP.....	.52 @ 70	12,000ppm
MIDDLE.....		
BOTTOM.....	.70 @ 55	10,000ppm
SAMPLER.....	.60 @ 58	12,000ppm
MUD PIT.....	.40 @ 72	15,000ppm
MAKE-UP WATER.....	3.5 @ 50	2,200ppm

DID WELL FLOW: GAS NO OIL NO WATER NO

RECOVERY IN PIPE:

50 ft. of slightly gas cut drilling mud .25 Bbl.
100 ft. of heavily gas cut and slightly oil cut drilling mud .50 Bbl.
150 ft. Total .75 Bbl. Total

BLOW DESCRIPTION: First flow; tool opened with 1" blow and increased to 3" in 4 min, 8" in 6 min, bottom of the bucket in 10 min with 6oz on the hose, 7oz on the hose at the end of the flow period.

Second Flow; tool opened with a strong blow and increased to the bottom of the bucket in 30 sec, 15 oz on the hose in 1 min, 14 oz in 5 min, 11 oz in 10 min, 10 oz in 15 min, 8 oz in 20 min, 7 oz in 25 min, 6 oz in 30 min, 5 oz in 40 min, 5 oz in 50 min, 5 oz at the end of the flow period.

COMPANY NAME: Conley P. Smith
WELL NAME: Foster Fed 19-13
DST NO.: 1

TYPE DMR NO. 4000
CAP. 5000 LOC. 4906
INSIDE X OUTSIDE
HOURS 03:04:00

TYPE DMR NO. 4001
CAP. 5000 LOC. 4988
INSIDE OUTSIDE X
HOURS 03:06:00

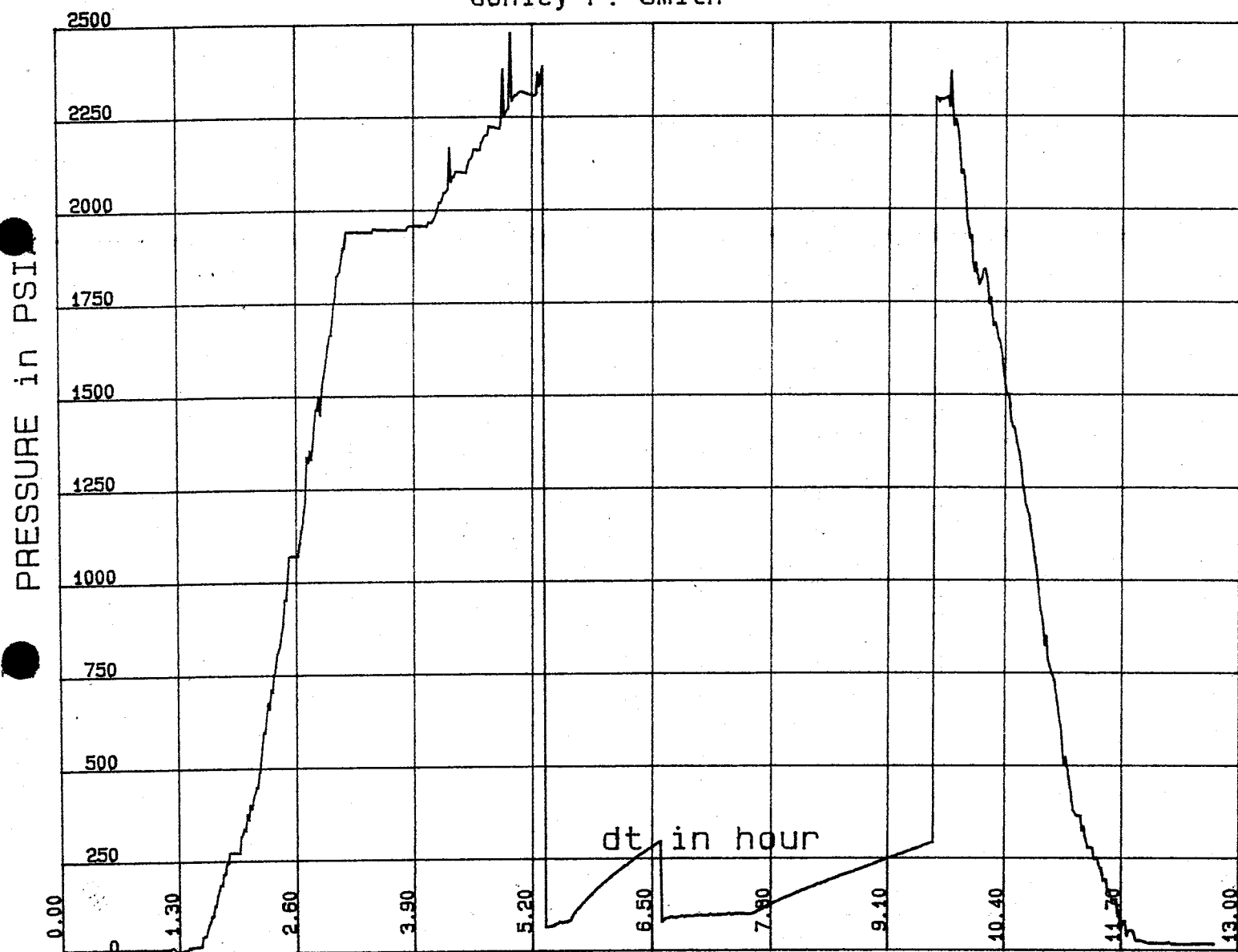
	PRESS.
IH.....	2365
FH.....	2301
IF-1....	62
FF-1....	81
IF-2....	77
FF-2....	103
SIP-1...	296
SIP-2...	293

	PRESS.
IH.....	2393
FH.....	2317
IF-1....	67
FF-1....	90
IF-2....	81
FF-2....	106
SIP-1...	221
SIP-2...	292

TIME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
------	---------------	---------------------	--------------------	---------

NO GAS TO SURFACE

LINEAR PLOT
Conley P. Smith



BAKER OIL TOOLS

Field:
Start time: 12:14:95/03:05:30
Comments: DST #1

Test Interval: 4930 - 4990
Stop time: 12:14:95/15:49:30

Well: Foster Fed. 19-13
Gauge Depth: 4906 feet

WELL TEST REPORT

COMPANY NAME : Conley P. Smith
FIELD :
WELL NAME : Foster Fed. 19-13
LOCATION : SW SW 19 30S 24E
PERF. INTERVAL : 4930 - 4990
ELEVATION :
GAUGE DEPTH : 4906 feet
GAUGE MODEL : 2578
GAUGE S/N : 4000
TEST TYPE : Bottom Hole Conventional
COMMENTS : Initial Flow Data

TECHNICIAN : Lee Whiting
REPORT DATE : 12/15/95

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Conley P. Smith
FIELD :
WELL : Foster Fed. 19-13
LOCATION : SW SW 19 30S 24E

TEST INT. : 4930 - 4990
GAUGE DEPTH : 4906 feet
GAUGE S/N : 4000
START DATE: 12/14/95 (MM/DD/YY)
START TIME: 03:04:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	08:25:30	0.000	62.5	0.0	110.0	281
1	08:26:30	0.017	63.7	1.3	110.0	282
1	08:27:30	0.033	65.0	2.5	110.0	283
1	08:28:30	0.050	66.2	3.8	110.0	284
1	08:29:30	0.067	68.8	6.3	110.0	285
1	08:30:30	0.083	70.0	7.5	110.0	286
1	08:31:30	0.100	72.5	10.0	110.0	287
1	08:33:30	0.133	76.2	13.7	110.7	288
1	08:34:30	0.150	81.3	18.8	110.7	289
1	08:35:30	0.167	76.2	13.7	110.7	290
1	08:36:30	0.183	76.2	13.7	110.7	291
1	08:37:30	0.200	80.0	17.5	110.7	292
1	08:38:30	0.217	81.3	18.8	110.7	293
1	08:39:30	0.233	81.3	18.8	110.7	294

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Conley P. Smith
FIELD :
WELL NAME : Foster Fed. 19-13
LOCATION : SW SW 19 30S 24E
PERF. INTERVAL : 4930 - 4990
ELEVATION :
GAUGE DEPTH : 4906 feet
GAUGE MODEL : 2578
GAUGE S/N : 4000
TEST TYPE : Bottom Hole Conventional
COMMENTS : Initial Shut-in Data

TECHNICIAN : Lee Whiting
REPORT DATE : 12/15/95

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Conley P. Smith
 FIELD :
 WELL : Foster Fed. 19-13
 LOCATION : SW SW 19 30S 24E

TEST INT. : 4930 - 4990
 GAUGE DEPTH : 4906 feet
 GAUGE S/N : 4000
 START DATE: 12/14/95 (MM/DD/YY)
 START TIME: 03:04:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	08:41:30	0.000	86.2	0.0	110.8	295
1	08:42:30	0.017	93.8	7.5	110.8	296
1	08:43:30	0.033	101.2	15.0	110.8	297
1	08:44:30	0.050	106.2	20.0	110.8	298
1	08:45:30	0.067	112.5	26.2	110.8	299
1	08:46:30	0.083	116.2	30.0	110.8	300
1	08:47:30	0.100	120.0	33.7	110.8	301
1	08:49:30	0.133	131.2	45.0	110.9	302
1	08:50:30	0.150	133.7	47.5	110.9	303
1	08:51:30	0.167	138.7	52.5	110.9	304
1	08:52:30	0.183	142.5	56.3	110.9	305
1	08:53:30	0.200	147.5	61.2	110.9	306
1	08:54:30	0.217	151.2	65.0	110.9	307
1	08:55:30	0.233	155.0	68.8	110.9	308
1	08:57:30	0.267	163.7	77.5	111.1	309
1	08:58:30	0.283	168.7	82.5	111.1	310
1	08:59:30	0.300	172.5	86.2	111.1	311
1	09:00:30	0.317	175.0	88.7	111.1	312
1	09:01:30	0.333	178.7	92.5	111.1	313
1	09:02:30	0.350	182.5	96.2	111.1	314
1	09:03:30	0.367	186.2	100.0	111.1	315
1	09:05:30	0.400	193.7	107.5	111.2	316
1	09:06:30	0.417	196.2	110.0	111.2	317
1	09:07:30	0.433	200.0	113.7	111.2	318
1	09:08:30	0.450	202.5	116.2	111.2	319
1	09:09:30	0.467	207.5	121.2	111.2	320
1	09:10:30	0.483	210.0	123.7	111.2	321
1	09:11:30	0.500	213.7	127.5	111.2	322
1	09:13:30	0.533	220.0	133.7	111.3	323
1	09:14:30	0.550	222.5	136.2	111.3	324
1	09:15:30	0.567	226.2	140.0	111.3	325
1	09:16:30	0.583	230.0	143.7	111.3	326
1	09:17:30	0.600	232.5	146.2	111.3	327
1	09:18:30	0.617	235.0	148.7	111.3	328
1	09:19:30	0.633	238.7	152.5	111.3	329
1	09:21:30	0.667	243.7	157.5	111.4	330
1	09:22:30	0.683	247.5	161.2	111.4	331
1	09:23:30	0.700	251.2	165.0	111.4	332
1	09:24:30	0.717	253.7	167.5	111.4	333
1	09:25:30	0.733	257.5	171.2	111.4	334

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	09:26:30	0.750	260.0	173.7	111.4	335
1	09:27:30	0.767	262.5	176.2	111.4	336
1	09:29:30	0.800	267.5	181.2	111.5	337
1	09:30:30	0.817	271.2	185.0	111.5	338
1	09:31:30	0.833	273.7	187.5	111.5	339
1	09:32:30	0.850	276.2	190.0	111.5	340
1	09:33:30	0.867	278.7	192.5	111.5	341
1	09:34:30	0.883	281.3	195.0	111.5	342
1	09:35:30	0.900	283.7	197.5	111.5	343
1	09:37:30	0.933	290.0	203.7	111.6	344
1	09:38:30	0.950	292.5	206.2	111.6	345
1	09:39:30	0.967	295.0	208.7	111.6	346
1	09:40:30	0.983	296.2	210.0	111.6	347

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Conley P. Smith
FIELD :
WELL NAME : Foster Fed. 19-13
LOCATION : SW SW 19 30S 24E
PERF. INTERVAL : 4930 - 4990
ELEVATION :
GAUGE DEPTH : 4906 feet
GAUGE MODEL : 257S
GAUGE S/N : 4000
TEST TYPE : Bottom Hole Conventional
COMMENTS : Final Flow Data

TECHNICIAN : Lee Whiting
REPORT DATE : 12/15/95

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Conley P. Smith
 FIELD :
 WELL : Foster Fed. 19-13
 LOCATION : SW SW 19 30S 24E

TEST INT. : 4930 - 4990
 GAUGE DEPTH : 4906 feet
 GAUGE S/N : 4000
 START DATE: 12/14/95 (MM/DD/YY)
 START TIME: 03:04:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	09:41:30	0.000	77.5	0.0	111.6	348
1	09:42:30	0.017	85.0	7.5	111.6	349
1	09:43:30	0.033	88.7	11.2	111.6	350
1	09:45:30	0.067	91.2	13.7	111.5	351
1	09:46:30	0.083	92.5	15.0	111.5	352
1	09:47:30	0.100	93.8	16.2	111.5	353
1	09:48:30	0.117	91.2	13.7	111.5	354
1	09:49:30	0.133	91.2	13.7	111.5	355
1	09:50:30	0.150	91.2	13.7	111.5	356
1	09:51:30	0.167	92.5	15.0	111.5	357
1	09:53:30	0.200	93.8	16.2	111.6	358
1	09:54:30	0.217	96.2	18.8	111.6	359
1	09:55:30	0.233	92.5	15.0	111.6	360
1	09:56:30	0.250	93.8	16.2	111.6	361
1	09:57:30	0.267	96.2	18.8	111.6	362
1	09:58:30	0.283	93.8	16.2	111.6	363
1	09:59:30	0.300	95.0	17.5	111.6	364
1	10:01:30	0.333	93.8	16.2	111.6	365
1	10:02:30	0.350	96.2	18.8	111.6	366
1	10:03:30	0.367	98.7	21.2	111.6	367
1	10:04:30	0.383	95.0	17.5	111.6	368
1	10:05:30	0.400	97.5	20.0	111.6	369
1	10:06:30	0.417	97.5	20.0	111.6	370
1	10:07:30	0.433	97.5	20.0	111.6	371
1	10:09:30	0.467	96.2	18.8	111.7	372
1	10:10:30	0.483	97.5	20.0	111.7	373
1	10:11:30	0.500	97.5	20.0	111.7	374
1	10:12:30	0.517	101.2	23.7	111.7	375
1	10:13:30	0.533	97.5	20.0	111.7	376
1	10:14:30	0.550	96.2	18.8	111.7	377
1	10:15:30	0.567	98.7	21.2	111.7	378
1	10:17:30	0.600	97.5	20.0	111.7	379
1	10:18:30	0.617	100.0	22.5	111.7	380
1	10:19:30	0.633	98.7	21.2	111.7	381
1	10:20:30	0.650	100.0	22.5	111.7	382
1	10:21:30	0.667	98.7	21.2	111.7	383
1	10:22:30	0.683	98.7	21.2	111.7	384
1	10:23:30	0.700	100.0	22.5	111.7	385
1	10:25:30	0.733	103.7	26.2	111.8	386
1	10:26:30	0.750	97.5	20.0	111.8	387

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	10:27:30	0.767	100.0	22.5	111.8	388
1	10:28:30	0.783	101.2	23.7	111.8	389
1	10:29:30	0.800	102.5	25.0	111.8	390
1	10:30:30	0.817	101.2	23.7	111.8	391
1	10:31:30	0.833	100.0	22.5	111.8	392
1	10:33:30	0.867	100.0	22.5	111.9	393
1	10:34:30	0.883	102.5	25.0	111.9	394
1	10:35:30	0.900	98.7	21.2	111.9	395
1	10:36:30	0.917	98.7	21.2	111.9	396
1	10:37:30	0.933	101.2	23.7	111.9	397
1	10:38:30	0.950	100.0	22.5	111.9	398
1	10:39:30	0.967	98.7	21.2	111.9	399
1	10:41:30	1.000	103.7	26.2	111.9	400

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Conley P. Smith
FIELD :
WELL NAME : Foster Fed. 19-13
LOCATION : SW SW 19 30S 24E
PERF. INTERVAL : 4930 - 4990
ELEVATION :
GAUGE DEPTH : 4906 feet
GAUGE MODEL : 257S
GAUGE S/N : 4000
TEST TYPE : Bottom Hole Conventional
COMMENTS : Final Shut-in Data

TECHNICIAN : Lee Whiting
REPORT DATE : 12/15/95

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Conley P. Smith
 FIELD :
 WELL : Foster Fed. 19-13
 LOCATION : SW SW 19 30S 24E

TEST INT. : 4930 - 4990
 GAUGE DEPTH : 4906 feet
 GAUGE S/N : 4000
 START DATE: 12/14/95 (MM/DD/YY)
 START TIME: 03:04:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp F	Record # in the DataFile
1	10:42:30	0.000	105.0	0.0	111.9	401
1	10:43:30	0.017	107.5	2.5	111.9	402
1	10:44:30	0.033	110.0	5.0	111.9	403
1	10:45:30	0.050	111.2	6.3	111.9	404
1	10:46:30	0.067	113.7	8.8	111.9	405
1	10:47:30	0.083	115.0	10.0	111.9	406
1	10:49:30	0.117	120.0	15.0	112.0	407
1	10:50:30	0.133	121.2	16.2	112.0	408
1	10:51:30	0.150	123.7	18.8	112.0	409
1	10:52:30	0.167	126.2	21.2	112.0	410
1	10:53:30	0.183	127.5	22.5	112.0	411
1	10:54:30	0.200	130.0	25.0	112.0	412
1	10:55:30	0.217	132.5	27.5	112.0	413
1	10:57:30	0.250	135.0	30.0	112.1	414
1	10:58:30	0.267	137.5	32.5	112.1	415
1	10:59:30	0.283	140.0	35.0	112.1	416
1	11:00:30	0.300	141.2	36.2	112.1	417
1	11:01:30	0.317	142.5	37.5	112.1	418
1	11:02:30	0.333	145.0	40.0	112.1	419
1	11:03:30	0.350	146.2	41.2	112.1	420
1	11:05:30	0.383	148.7	43.8	112.1	421
1	11:06:30	0.400	151.2	46.2	112.1	422
1	11:07:30	0.417	152.5	47.5	112.1	423
1	11:08:30	0.433	155.0	50.0	112.1	424
1	11:09:30	0.450	156.3	51.2	112.1	425
1	11:10:30	0.467	158.7	53.7	112.1	426
1	11:11:30	0.483	158.7	53.7	112.1	427
1	11:13:30	0.517	163.7	58.7	112.2	428
1	11:14:30	0.533	165.0	60.0	112.2	429
1	11:15:30	0.550	166.2	61.2	112.2	430
1	11:16:30	0.567	167.5	62.5	112.2	431
1	11:17:30	0.583	168.7	63.7	112.2	432
1	11:18:30	0.600	171.2	66.2	112.2	433
1	11:19:30	0.617	172.5	67.5	112.2	434
1	11:21:30	0.650	175.0	70.0	112.2	435
1	11:22:30	0.667	177.5	72.5	112.2	436
1	11:23:30	0.683	178.7	73.7	112.2	437
1	11:24:30	0.700	181.2	76.2	112.2	438
1	11:25:30	0.717	181.2	76.2	112.2	439
1	11:26:30	0.733	182.5	77.5	112.2	440

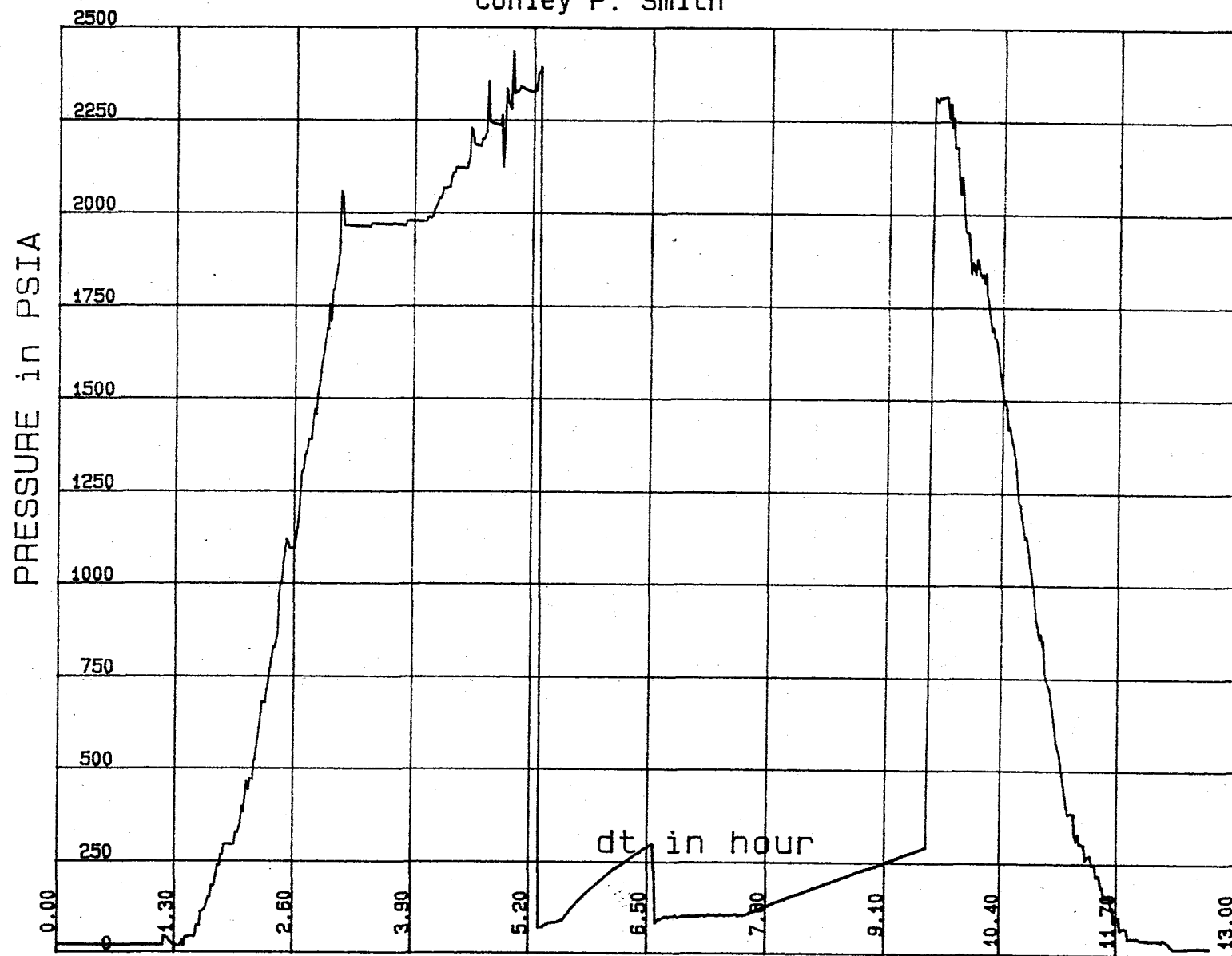
Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	11:27:30	0.750	185.0	80.0	112.2	441
1	11:29:30	0.783	187.5	82.5	112.3	442
1	11:30:30	0.800	190.0	85.0	112.3	443
1	11:31:30	0.817	191.2	86.2	112.3	444
1	11:32:30	0.833	192.5	87.5	112.3	445
1	11:33:30	0.850	193.7	88.7	112.3	446
1	11:34:30	0.867	196.2	91.2	112.3	447
1	11:35:30	0.883	196.2	91.2	112.3	448
1	11:37:30	0.917	200.0	95.0	112.4	449
1	11:38:30	0.933	201.2	96.2	112.4	450
1	11:39:30	0.950	203.7	98.7	112.4	451
1	11:40:30	0.967	205.0	100.0	112.4	452
1	11:41:30	0.983	206.2	101.2	112.4	453
1	11:42:30	1.000	207.5	102.5	112.4	454
1	11:43:30	1.017	208.7	103.7	112.4	455
1	11:45:30	1.050	211.2	106.2	112.4	456
1	11:46:30	1.067	212.5	107.5	112.4	457
1	11:47:30	1.083	213.7	108.7	112.4	458
1	11:48:30	1.100	215.0	110.0	112.4	459
1	11:49:30	1.117	217.5	112.5	112.4	460
1	11:50:30	1.133	218.8	113.7	112.4	461
1	11:51:30	1.150	220.0	115.0	112.4	462
1	11:53:30	1.183	222.5	117.5	112.5	463
1	11:54:30	1.200	223.7	118.7	112.5	464
1	11:55:30	1.217	226.2	121.2	112.5	465
1	11:56:30	1.233	227.5	122.5	112.5	466
1	11:57:30	1.250	228.7	123.7	112.5	467
1	11:58:30	1.267	231.2	126.2	112.5	468
1	11:59:30	1.283	231.2	126.2	112.5	469
1	12:01:30	1.317	235.0	130.0	112.6	470
1	12:02:30	1.333	237.5	132.5	112.6	471
1	12:03:30	1.350	237.5	132.5	112.6	472
1	12:04:30	1.367	240.0	135.0	112.6	473
1	12:05:30	1.383	241.2	136.2	112.6	474
1	12:06:30	1.400	242.5	137.5	112.6	475
1	12:07:30	1.417	243.7	138.7	112.6	476
1	12:09:30	1.450	246.2	141.2	112.6	477
1	12:10:30	1.467	248.7	143.7	112.6	478
1	12:11:30	1.483	250.0	145.0	112.6	479
1	12:12:30	1.500	251.2	146.2	112.6	480
1	12:13:30	1.517	252.5	147.5	112.6	481
1	12:14:30	1.533	255.0	150.0	112.6	482
1	12:15:30	1.550	255.0	150.0	112.6	483
1	12:17:30	1.583	258.7	153.7	112.6	484
1	12:18:30	1.600	261.2	156.3	112.6	485

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	12:19:30	1.617	261.2	156.3	112.6	486
1	12:20:30	1.633	262.5	157.5	112.6	487
1	12:21:30	1.650	263.7	158.7	112.6	488
1	12:22:30	1.667	266.2	161.2	112.6	489
1	12:23:30	1.683	267.5	162.5	112.6	490
1	12:25:30	1.717	271.2	166.2	112.7	491
1	12:26:30	1.733	271.2	166.2	112.7	492
1	12:27:30	1.750	273.7	168.7	112.7	493
1	12:28:30	1.767	275.0	170.0	112.7	494
1	12:29:30	1.783	276.2	171.2	112.7	495
1	12:30:30	1.800	278.7	173.7	112.7	496
1	12:31:30	1.817	278.7	173.7	112.7	497
1	12:33:30	1.850	282.5	177.5	112.7	498
1	12:34:30	1.867	283.7	178.7	112.7	499
1	12:35:30	1.883	286.2	181.2	112.7	500
1	12:36:30	1.900	287.5	182.5	112.7	501
1	12:37:30	1.917	287.5	182.5	112.7	502
1	12:38:30	1.933	290.0	185.0	112.7	503
1	12:39:30	1.950	291.2	186.2	112.7	504
1	12:41:30	1.983	293.7	188.7	112.7	505

BAKER OIL TOOLS

LINEAR PLOT

Conley P. Smith



Field:
Start time: 12 14: 95/03: 07: 30
Comments: DST #1

Test Interval: 4930 - 4990
Stop time: 12 14: 95/15: 51: 30

Well: Foster Fed.19-13
Gauge Depth: 4988 feet

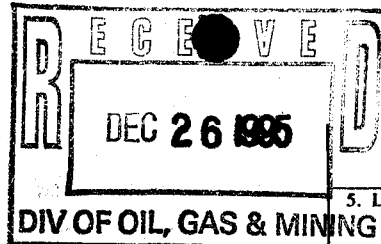
BAKER OIL TOOLS

Note:

The reports and plots contained here-in are a true and accurate representation of the input data. However, all interpretations are opinions based on analytical techniques described in the literature and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willfull negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretations made by one of our officers, agents, or employees.

BAKER OIL TOOLS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-71433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Foster Federal #19-13

9. API Well No.

43-037-31767

10. Field and Pool, or Exploratory Area

Lisbon

11. County or Parish, State

San Juan County, Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other DRY HOLE

2. Name of Operator

CONLEY P. SMITH OPERATING COMPANY

3. Address and Telephone No.

1125 17th Street #2360, Denver, Colorado 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

675' FSL & 670' FWL (SWSW) Section 19, T30S-R24E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Permission to P & A well was obtained from Mr. Gary Torres w/BLM at 10:00 a.m. 12-15-95 as follows:

Plug #	Sxs of Cement	Depth
1	155	5034-4637'
2	94	3305-3011' (Wait 2-4 hrs. & test plug)
3	40	1560-1460'
4	10	50-Surface

14. I hereby certify that the foregoing is true and correct

Signed

Title

Robert P. Vernon
Operations Manager

Date

12-21-95

(This space for Federal or State office use)

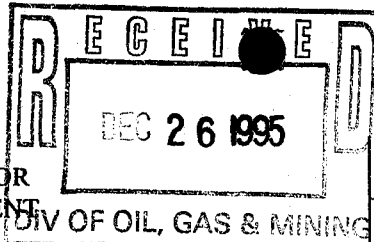
Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other DRY HOLE

2. Name of Operator

CONLEY P. SMITH OPERATING COMPANY

3. Address and Telephone No.

1125 17th Street #2360, Denver, Colorado 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

675' FSL & 670' FWL (SWSW) Section 19, T30S-R24E

5. Lease Designation and Serial No.

UTU-71433

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Foster Federal #19-13

9. API Well No.

43-037-31767

10. Field and Pool, or Exploratory Area

Lisbon

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

P & A well on 12-16-95 as follows:

Plug #	Sxs of Cement	Depth
1	155	5034-4637'
2	94	3305-3011' (Tested plug after 2 hrs. & after 4 hrs. OK)
3	40	1560-1460'
4	10	50-Surface

P & A operations witnessed by Mr. Jeff Brown w/BLM. Fenced 4th side of reserve pit. Filled rat & mouse holes. Installed Dry Hole Marker. Will wait 30-90 days for reserve pit to dry and then fill, level location, & reseed.

Attached is copy of Schlumberger Dowell Cement Ticket showing where cement plugs were set.

14. I hereby certify that the foregoing is true and correct

Signed

Title

Robert P. Vernon
Operations Manager

Date

12-20-95

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

DOWELL

ID: 1-505-327-0317

DEC 19 '95

16:36 No.003 P.02

K 110

Dowell

DOWELL SCHLUMBERGER INCORPORATED

STAGE

DS

DISTRICT

Farmington

DG-486-A PRINTED IN U.S.A.

WELL NAME AND NO. Foster Fed 19-13		LOCATION (LEGAL) see 19 T30s, R24E		WELL NAME: Four Corners #7	
FIELD-POOL		FORMATION		WELL DATA:	
COUNTY/PARISH SAN JUAN		STATE UTAH		APL NO.	
NAME Lonely p. Smith		ADDRESS		ZIP CODE	
SPECIAL INSTRUCTIONS Set 4 plugs As per Customer And BLM		MUD TYPE		GRADE	
IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE		PSI	
PRESSURE LIMIT		PSI		BUMP PLUG TO	
ROTATE		RPM		RECIPROCAT	
NO. OF CENTRIFUGES		FT		No. of Centrifuges	
BIT SIZE		CSG/Liner Size		BOTTOM	
TOTAL DEPTH		WEIGHT		TOP	
LI FOT <input type="checkbox"/> CABLE		FOOTAGE		1510	
MUD DENSITY		LESS FOOTAGE		SHOE JOINT(S)	
MUD VISC.		Disp. Capacity		TOTAL	
NOTE: Include Footage From Ground Level To Head In Disp. Capacity		TYPE		DEPTH	
TYPE		DEPTH		TYPE	
DEPTH		TYPE		DEPTH	
Head & Plug		T80		D.P.	
LI Double		SIZE		4 1/2	
LI Single		LI WEIGHT		16.6	
LI Swage		LI GRADE		744	
LI Knuckle		LI THREAD		H H	
TOP TIR TIR		NEW		USED	
BOT TIR TIR		DEPTH		5034	
SQUEEZE JOB		TYPE		DEPTH	
TAIL PIPE: SIZE		DEPTH		TUBING VOLUME	
CASING VOL. BELOW TOOL		TOTAL		Bbls	
ANNUAL VOLUME		Bbls		Bbls	

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	T80 OR D.P.	CASING	INCREMENT	CUM	TIME: ASAP	DATE: 12-15-95	TIME: 1745	DATE: 12-15	TIME: 0115	DATE: 12-16	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
								PRE-JOB SAFETY MEETING Yes			
1909	320		10	-	5.3	H2O	8.34	START H2O Ahead			
1911	320		29	10	5.4	Cmt	15.8	START Cement slurry			
1918	100		2	39	4.4	H2O	8.34	START H2O Displacement			
1918	100		618	41	6.6	Mud		START mud Displacement			
1928	0	-	-	142	-	-	-	Shutdown, plug balanced @ 4637' WATER RIG			
2044	80		10	-	5.3	H2O	8.34	START H2O Ahead			
2046	220		116	10	5.3	Cmt	15.8	START Cement slurry			
2049	130		214	3.9	3.9	H2O	8.34	START H2O Displace			
2049	190		40	234	6.7	Mud		START mud Displace			
2056	0		634	0	-	-	-	Shutdown, plug balanced @ 5100' WATER RIG TPA			
								AND T80 plug.			
0115								STILL Cavit Really TAG. ALM decided to			
								set 95% plug @ 3086 TO 3011			
0231	240		10	-	5.3	H2O	8.34	START H2O Ahead			
0233	150		20	10	5.3	Cmt	15.8	START Cement slurry			
0235	150		2	16	4.3	H2O	8.34	START H2O Displace			

REMARKS

SYSTEM CODE	NO. OF BACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED	
						BBLs	DENSITY
Plug 1	180	1.15	Cl. G.	.5% B14	4637-5034	29	15.8
Plug 2	64	1.15	Cl. G.	3% S-1	3011-3305	13	15.8
4	40	1.15	Cl. G.	1.5% S-1	1460-1500	8	15.8
5	30	1.15	Cl. G.	3% S-1	Surface - 505	2	15.8
Plug 3	30	1.15	Cl. G.	1.5% S-1	3011-3086	6	15.8

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE		MAX.		MIN.	
<input type="checkbox"/> HESITATION SQ.		<input type="checkbox"/> RUNNING SQ.		CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf.		<input type="checkbox"/> YES <input type="checkbox"/> NO	
BREAKDOWN		PSI		FINAL		PSI		DISPLACEMENT VOL.		Bbls	
Washed Thru Perfs		<input type="checkbox"/> YES <input type="checkbox"/> NO		TO		FT.		MEASURED DISPLACEMENT		<input type="checkbox"/> WIRELINE	
PERFORATIONS		TO		TO		TO		TO		TO	
CUSTOMER REPRESENTATIVE						DS SUPERVISOR					
Bob Moore						[Signature]					

DOWELL SCHLUMBERGER INCORPORATED

STAGE

DS

DISTRICT

DS-490-A PRINTED IN U.S.A.

WELL NAME AND NO.

Foster Fed 19-13
FIELD POOL

LOCATION (LEGAL)

SEC 19 T30S R24E
FORMATION

COUNTY/PARISH

SAN JUAN

STATE

UTAH

API. NO.

NAME

Conkey P. Smith

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

RIG NAME:

Foster Fed 19-13

WELL DATA:

BOTTOM

TOP

BIT SIZE

CBG/Liner Size

TOTAL DEPTH

WEIGHT

☐ ROT ☐ CABLE

FOOTAGE

MUD TYPE

GRADE

☐ BHST

THREAD

MUD DENSITY

LESS FOOTAGE

SHOE JOINTS

MUD VISC.

Dis. Capacity

TOTAL

NOTE: Include Footage From Gravel Level To Head In Dis. Capacity

RIG

TYPE

DEPTH

RIG

TYPE

DEPTH

RIG

TYPE

DEPTH

RIG

TYPE

DEPTH

Head & Plugs

☐ TBG☐ D.P.

SQUEEZE JOB

☐ Double

SIZE

TOOL

TYPE

☐ Single

WEIGHT

DEPTH

☐ Swage

GRADE

TAIL PIPE: SIZE

DEPTH

☐ Knockoff

THREAD

TUBING VOLUME

Bbls

TOP OR FW

☐ NEW ☐ USED

CASING VOL. BELOW TOOL

Bbls

BOT OR DW

DEPTH

TOTAL

Bbls

ANNUAL VOLUME

Bbls

IS CASING/TUBING SECURED? ☐ YES ☐ NO

LIFT PRESSURE

PSI

CASING WEIGHT + SURFACE AREA

(3.14 x R²)

PRESSURE LIMIT

PSI

BUMP PLUG TO

PSI

ROTATE

RPM

RECIPROCAT

FT

No. of Centralizers

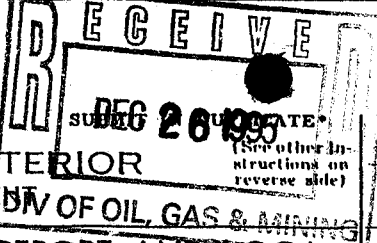
TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
0236	210		39	88	5.3	mud			12-15		12-16
0243	0			57	0	-	-		12-15		12-16
0445	110		10		5.3	H ₂ O	8.24		12-15		12-16
0447	200		8	10	5.3	Out	8.28		12-15		12-16
0448	160		2	18	5.3	H ₂ O	8.24		12-15		12-16
0449	80		16 1/2	20	5.3	mud			12-15		12-16
0452	110			36 1/2					12-15		12-16
0622	80		3 1/2	-	2.5	H ₂ O	8.24		12-15		12-16
0623	80		6.5	3.5	2.6	Out	11.6		12-15		12-16
0626	80		5	10	2.5	H ₂ O	8.24		12-15		12-16
0626	0			10.5	0	-	-		12-15		12-16

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS					SLURRY MIXED	
								BBLs	DENSITY
1.									
2.	1								
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE				VOLUME		DENSITY		PRESSURE		MAX.		MIN:					
<input type="checkbox"/> HESITATION SQ.				<input type="checkbox"/> RUNNING SQ.		CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO				Bbls			
BREAKDOWN		PSI		FINAL		PSI		DISPLACEMENT VOL.		BDIS		TYPE		<input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT			
Washed Thru Perfs		<input type="checkbox"/> YES <input type="checkbox"/> NO		TO		FT.		MEASURED DISPLACEMENT <input type="checkbox"/>		<input type="checkbox"/> WIRELINE		WELL					
PERFORATIONS						CUSTOMER REPRESENTATIVE						DS SUPERVISOR					
TO				TO				Bob Moore				Soyan W. Lane					
TO				TO													

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIV OF OIL, GAS & MINING

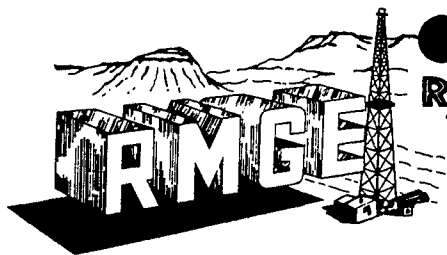


Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. UTU-71433	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. SERV. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR CONLEY P. SMITH OPERATING COMPANY		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1125 17th Street #2360, Denver, CO 80202		8. FARM OR LEASE NAME Foster Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 675' FSL & 670' FWL (SWSW) At top prod. interval reported below Same At total depth Same		9. WELL NO. #19-13	
14. PERMIT NO. 43-037-31767		10. FIELD AND POOL, OR WILDCAT Lisbon	
DATE ISSUED 11-16-95		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Section 19 T30S-R24E	
15. DATE STUDDERED 12-5-95		12. COUNTY OR PARISH San Juan	
16. DATE T.D. REACHED 12-15-95		13. STATE Utah	
17. DATE COMPL. (Ready to prod.) Well P & A 12-16-95		18. ELEVATIONS (DF, RKN, RT, OR, ETC.)* 5817' GR	
19. ELEV. CASINGHEAD 5818'		20. TOTAL DEPTH, MD & TVD 5030'	
21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY 5030'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Well P & A	
25. TYPE ELECTRIC AND OTHER LOGS RUN 12-20-95 Dual Induction/GR and Compensated Neutron-GR/Litho Density-Caliper		26. WAR DIRECTIONAL SURVEY MADE No	
27. WAS WELL CORRD. No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) N/A		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH, INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
35. LIST OF ATTACHMENTS Open Hole Logs, DST #1, and Geological Report mailed under separate cover		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <i>[Signature]</i>		TITLE Operations Manager	
DATE 12-21-95			

*(See Instructions and Spaces for Additional Data on Reverse Side)



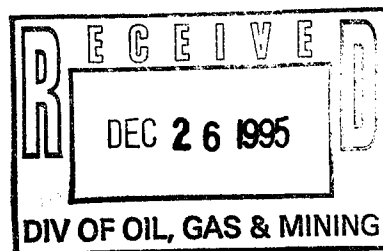
ROCKY MOUNTAIN GEO-ENGINEERING CORP.

Well Logging • Consulting Geology • Coal Bed Methane Services • Computerized Logging Equipment & Software

2450 INDUSTRIAL BLVD. • GRAND JUNCTION, CO 81505
(970) 243-3044 • FAX: 241-1085

December 20, 1995

Attn.: Conley P. Smith
Conley P. Smith Operating Co.
1125 17th Street, Ste. 2360
Denver, CO 80202



Re: Foster Federal #19-13
Sec. 19, T30S, R24E
San Juan County, Utah

42-037-31767
675 FSL 670 FWL
SWSW PA 12-16-95

Dear Mr. Smith:

Enclosed are the final logs/geology report/data disk for the above referenced well.

We appreciate the opportunity to be of service and look forward to working with again in the near future.

If you have further questions, please contact us.

Respectfully,

Bill Nagel
Senior Geologist

BN/dn

Enc. 5 Computer Colored Logs/3 Geology Reports/1 Data Disk

cc 1 Computer Colored Log/Geology Report; Dominion Reserves, Inc.; J.
Chadwick; Richmond, VA
1 Computer Colored Log/Geology Report; Markwest Coatseams, LLC; R.
Garvin; Englewood, CO
1 Computer Colored Log/Geology Report; Ener-Tech Apollo, LLC; G. Willis;
Denver, CO
1 Computer Colored Log/Geology Report; Jim's Water service, Inc.; J. Rodgers;
Gillette, WY

- 1 Computer Colored Log/Geology Report; Sun Cementing of WY., Inc.; E. Stuber; Gillette, WY
- 1 Computer Colored Log/Geology Report; a. G. Andrikopoulos Resources; A. G. Andrikopoulos; Cheyenne, WY
- 1 Computer Colored Log/Geology Report ; England Production Co.; R. Hornig; Denver, CO
- 1 Computer Colored Log/Geology Report; Voyager Exploration, Inc.; N. Foster; Denver, CO
- 1 Geology Report; Division of Oil, Gas & Mining; Salt Lake City, UT
- 1 Geology Report; Moab Utah BLM; Moab, UT

**CONLY P. SMITH OPERATING CO.
FOSTER FEDERAL #19-13
SW SW SECTION 19, T30S - R24E
SAN JUAN COUNTY, UTAH**

**GEOLOGY REPORT
by
DAVE MEADE
ROCKY MOUNTAIN GEO-ENGINEERING CORP.
GRAND JUNCTION, COLORADO
(970) 243-3044**

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WELL SUMMARY

OPERATOR: CONLEY P. SMITH OPERATING CO.

NAME: FOSTER FEDERAL #19-13

LOCATION: SW SW SECTION 19, T30S, R24E

COUNTY/STATE: SAN JUAN, UTAH

ELEVATION: GL: 5817' KB: 5830'

SPUD DATE: 12/05/95

COMPLETION DATE: 12/15/95

DRILLING ENGINEER: BOB MOORE

WELLSITE GEOLOGY: DAVE MEADE

MUDLOGGING: ROCKY MOUNTAIN GEO-ENGINEERING CORP.
ENGINEERS DAVE MEADE / MARVIN ROANHORSE

CONTRACTOR: 4 CORNERS DRILLING RIG #7
TOOLPUSHER: JOE McEARTH

HOLE SIZE: 12 1/4" 0-1510'; 7 7/8" 1510'-5034'

CASING RECORD: 8 5/8" SET AT 1510'

DRILLING MUD: DRILLING FLUIDS INC.
ENGINEER: ROBERT RIDDLE
MUD TYPE: 0'-4250' FRESH WATER/GEL; 4250'-TD LSND CHEM MUD

CORES: NONE

DRILL STEM TESTS BAKER-LES WHITING

ELECTRIC LOGS: SCHULMBERGER
ENGINEER: RODGER SITTON/
TYPE LOGS: GR/LDL-CNL/CAL/PHASOR INDUCTION/SFL

TOTAL DEPTH: DRILLER: 5030' LOGGER: 5034'

STATUS: PLUGGED & ABANDONED

DRILLING CHRONOLOGY

CONLEY P. SMITH OPERATING CO. FOSTER FEDERAL #19-13

DATE	DEPTH	DAILY	ACTIVITY
121/05/95 (01)	0'	112'	MOVE RIG & RIG UP-DRLG RAT & MOUSE HOLE-DLRG 12 1/4" HOLE W/BIT #1
12/06/95 (02)	112'	1250'	SURVEY-DRLG-SURVEYS-DRLG
12/07/95 (03)	1362'	148'	DRLG-CIR-SHORT TRIP-CIR-DROP SURVEY-TOH & SLM-RUN 8 5/8" CASING-CMT-W.O.CMT-CUT OFF CSG & WELD WELL HEAD-PRES. TEST-WORK ON RIGHT ANGLE DRIVE-NIPPLE UP BOP-PRES TEST
12/08/95 (04)	1510'	897'	PRES TEST-MAKE UP BHA-TIH W/BIT #2-DRLG CMT & SHOE-DRLG 7 7/8" HOLE-SURVEY-DRLG
12/09/95 (05)	2407'	990'	DLRG-SURVEYS-DRLG
12/10/95 (06)	3397'	572'	DRLG-SURVEY-DRLG-WORK ON TAIL SHAFT-DLRG-TOH 35 STDs-WORK ON TAIL SHAFT
12/11/95 (07)	3969'	526'	DRLG-RIG REPAIRS (BRAKE GEAR)-SURVEY-TOH-TIH W/BIT #3-DRLG
12/12/95 (08)	4495'	363'	DRLG-SURVEY-DRLG
12/13/95 (09)	4858'	132'	DRLG-CIR SPLS @ 4981'-DRLG-CIR SPLS @ 4990'-CIR & COND MUD FOR DST #1-SHORT TRIP-CIR
12/14/95 (10)	4990'	37'	TOH-PICK UP TEST TOOL-TIH-RIG SURFACE EQUIP-DST#1-TOH-LAY DOWN TEST TOOL-TIH-DRLG
12/15/95 (11)	5027'	3'	DLRG-TD @ 5030'-CIR-SHORT TRIP-CIR-TOH & SLM-RIG UP LOGGERS-LOGGING-RIG DOWN LOGGERS-TIH & W.O. ORDERS-START PLUGGING PROCEDURES

ELEVATION:	GL 5817 KH 5830
SECTION:	SW SW SEC. 19, T30S-R24E
COUNTY & STATE:	SAN JUAN, UTAH
T.D. DATE:	12/15/95

[illegible]

(303) 243-3044

WELL NAME: FOSTER FEDERAL #19-13

[illegible]

SAMPLE DESCRIPTIONS

OPERATOR:
WELL NAME:

CONLEY P. SMITH OPERATING CO.
FOSTER FEDERAL #19-13

DEPTH			LITHOLOGY
2500-2530	70%	SH	m-lt orng, redorng, orngbrn, sft-frm, sbplty-plty-sbblky, rthy-sl slty, occ sl sdy ip, sl calc, tr mica, grdg to shy SLTST
	20%	SLTST	lt-m orng, occ redorng, sft-fri, shy-occ v sl sdy, grdg to slty SH
	10%	SS	trns-lclr, orng, vf -fgr, sbrnd-rnd, uncons-pcmt, pred free qtz gr-v rr sil cmt, cln, NFSOC
	TR	LS	orng, crpxl, mfrm-frm, v sl chky, cln- sl rthy, dns, tt, NFSOC
2530-2560	50%	SS	trns-lclr, occ orgn, AA, pred free qtz gr, f-g POR, NFSOC
	30%	SLTST	AA
	20%	SH	AA
	TR	LS	AA
2560-2590	45%	SH	m-lt orng, redorng, orngbrn, frm-sft, sbplty-sbblky-plty, calc-sl lmy, rthy-slty ip, occ v sl sdy, grdg to shy SLTST
	35%	SLTST	m-lt orng, redorng, sft-fri, sl sdy- shy, tr mica, calc ip, grdg to slty SH
	20%	SS	AA, NFSOC
2590-2620	40%	SLTST	AA
	30%	SS	AA
	30%	SH	AA
2620-2650	40%	SS	AA
	35%	SLTST	AA
	25%	SH	AA
2650-2680	50%	SLTST	redorng-orng, occ brkred, fri-mfrm, sdy-v sdy, mica, sl calc, v arg, occ grdg to slty SH
	30%	SS	clr-trns-l, orng-ltorng ip, vf-f gr, sbrd-ang, w srt, uncons, p cmt ip, n-v sl calc cly cmt, v sl mica ip, occ sl slty, tt, NFSOC
	20%	SH	AA
	TR	LS	tan, crm-wh, crpxl, frm, cln, dns, tt, NFSOC
2680-2710	50%	SS	pred orng-ltorng, redorng ip, AA, tt-tr intgr POR, NFSOC
	40%	SLTST	AA
	10%	SH	redorng-orng, occ ltgn-brkred, sbblky-plty, sft-mfrm, n-sl calc, mica, rthy, slty-v slty, sdy ip, v sl bent
2710-2740	70%	SS	redorng-orng, clr-trns-ltgy ip, ang-sbrd, w-m srt, uncons, v sl p cmt, occ sl-n calc cmt, v sl mica, tt-tr intgr POR, NFSOC
	20%	SLTST	AA, occ grdg to v slty SS
	10%	SH	AA

2740-2770	80%	SS	AA
	15%	SLST	orng-redorng, occ brkred, fri-mfrm, sdy-v sdy, sl mica, n-sl calc, shy ip, occ grdg to v slty SS
	5%	SH	AA
2770-2800	60%	SLTST	AA
	25%	SH	orng-redorng, offwh, ltgn ip, sbblky-plty, sft-firm, mica, sl slty, v sl sdy, n-sl calc, occ sl bent
	15%	SS	AA
	TR	LS	ltgy-crm, occ redorng, crpxl, frm, cln-sl arg, dns, tt
2800-2830	40%	SLTST	AA, pred redorng, occ redbrn
	40%	SS	redorng, clr-trnsl, occ ltorng-ltgy, vf-f gr, occ m gr, sbang-sbrd, w srt, uncons, p cmt ip, n-v sl calc cly cmt, v sl mica, cln-occ v slty, tt-v rr integr POR, NFSOC
	20%	SH	AA
	TR	LS	AA
2830-2860	90%	SS	ltorng, occ trnsl-clr, vf-f gr, occ m gr, ang-sbrd, w srt, uncons, tr integr POR, NFSOC
	5%	SLTST	AA
	5%	SH	AA
	TR	LS	AA
2860-2890	100%	SS	AA, occ m-c gr, NFSOC
	TR	SLTST	AA
	TR	SH	AA
2890-2920	40%	SLTST	redorng-redbrn, occ ltorng-brkred, fri-mfrm, sl mica, n-v sl calc, shy, sdy
	40%	SS	AA
	20%	SH	redorng-redbrn, ltgn-offwh, sbblky-plty, sft-mfrm, mica, rthy, sl bent, v sl slty, n-v sl calc
	TR	LS	ltgy-crm, occ redbrn, crpxl, frm, rthy-cln, dns, occ grdg to v lmy SH ip
2920-2950	60%	SS	trnsl-clr-orng-ltorng, occ redorng, vf-m gr, sbrd-ang, w-m srt, uncons, tr integr POR, NFSOC
	20%	SH	AA
	15%	SLTST	AA
	5%	LS	AA
2950-2980	70%	SLTST	redorng-brkred, occ orng, fri-firm, sdy-v sdy ip, shy, mica, rthy, n-v sl calc
	20%	SS	AA, occ grdg to v sdy SLTST
	10%	SH	AA, occ ltorng, lt-mgy ip, n calc

2980-3010	60%	SLTST	TR METAL FRAG
	25%	SS	AA, incr sdy, occ grdg to v slty vf gr SS orng-ltorng, redorng ip, occ trns, vf-f gr, sbang-sbrd, w srt, p-m cmt, n-v sl calc cly cmt, mica, sl shy, slty-v slty, grdg to v sdy SLTST ip, tt, NFSOC
	15%	SH	ltorng, redorng, offwh-ltgn, occ ltgy-brn, sbblky-sbply, sft-firm, rthy, v sl slty, mica, v sl bent, n-v sl calc
3010-3040	50%	SS	AA
	40%	SLTST	AA, occ grdg to v slty SS
	10%	SH	AA
3040-3070	90%	SS	orng-ltorng, occ trns, vf-f gr, occ m gr, sbrd-sbang, uncons, tr intgr POR, NFSOC
	5%	SLTST	AA
	5%	SH	AA
3070-3100	60%	SS	AA
	20%	SLTST	orng-redorng, occ brkred-redbrn, fri-mfrm, mica, sdy, v shy, n-v sl calc, occ grdg to v slty SH
	20%	SH	orng-redorng, occ redbrn-ltgn-lt-mgy, sbblky-ply, sft-mfrm, sl mica, slty ip, v sl sdy, n-v sl calc
	TR	LS	tan-ltgy, crm ip, crpxl, frm, v arg, occ cln-dns, grdg to v lmy SH ip
3100-3130	70%	SLTST	AA, v sdy, occ grdg to v slty SS
	20%	SH	AA, sl calc-calc, occ n calc
	10%	SS	AA, v slty, occ grdg to v sdy SLTST
3130-3160			TR METAL FRAG
	85%	SS	clr-trns, ltgy-ltorng ip, vf-f gr, occ m-scat c gr, rd-sbang, w-m srt, uncons, w/occ scat offwh-wh n calc CLYST frag, rr-tr intgr POR, NFSOC
	10%	SLTST	ltgy-gy, gygn ip, fri-firm, sdy, mica-v mica, sl shy, calc, occ grdg to v slty vf gr SS
	5%	SH	AA, occ ltgy-ltgn, v slty ip
3160-3190			TR METAL FRAG
	45%	SLTST	AA
	25%	SS	AA
	20%	SH	AA
	10%	LS	tan, ltgy, crm, crpxl, frm-mfrm, shy-sl slty, rthy ip, cln, dns, tt, NFSOC
3190-3220	80%	SS	AA, uncons, tr wh-off wh n calc CLYST frag, rr-tr intgr POR, NFSOC
	10%	SH	AA
	5%	LS	AA
	5%	SLTST	AA

3220-3250	45%	SH	m-dk brn, ltbrnorg, m-lt brngy, occ orng, frm-sft, sbply-sbblky, rthy-slty ip, occ v sl calc, tr mica, grdg to shy SLTST
	35%	SS	trns-clr-wh, vf-fgr, sbrnd-sbang, msrt, mcmnt-uncons, wh sl calc cly-sil cmt, tr wh sl calc cly fl, cln,tt, NFSOC
	10%	SLTST	brn,ltgy-gybrn, sft-fri, sl shy ip, occ sl sdy, grdg to slty SH
	10%	LS	tan, ltgy, crm, crpxl, frm-mfrm, sl shy ip, v sl chky, cln, dns, tt, NFSOC
3250-3280	45%	SS	AA/ sl incr wh cly fl, cln- v sl ark ip, tt, NFSOC
	40%	SH	AA
	10%	SLTST	AA
	5%	LS	AA
3280-3310	35%	SH	AA
	25%	LS	ltgy-ltgybrn, tan, crm, crpxl, mfrm-frm, shy-rthy, sl chky ip, cln, dns, tt, NFSOC
	15%	SLTST	AA
	15%	SS	AA
	10%	CHT	brn-tan, occ trns,
3310-3340	35%	LS	tan-crm, brn, occ off wh-trns, crpxl, mfrm-frm, shy-sl slty, chty, occ v chky-grdg to CLYST ip, cln, dns, tt, NFSOC
	25%	SS	trns-clr-wh, vf-fgr, sbrnd-sbang, wsrt,uncons-mcmnt, calc cly cmt/ occ wh calc cly fl, tt-tr intgr POR, NFSOC
	20%	CHT	AA
	15%	SH	AA
	5%	SLTST	AA
3340-3370	50%	SS	AA, incr wh calc cly fl grdg to CLYST ip, tt-tr intgr POR, NFSOC
	20%	SH	lt-dkgy, brn, occ ltbrngy, sft-frm, sbply-sbblky, slty ip, tr mica, rthy
	15%	LS	AA
	10%	CHT	AA
	5%	SLTST	AA
3370-3400	50%	LS	tan, ltgybrn, brn, crpxl-micxl, frm-sft, slty-sl shy, occ sl sdy, rthy, v sl chky, tr cht, cln,dns, tr intxl POR-tt, NFSOC
	25%	SS	AA
	10%	SH	AA
	10%	CHT	AA
	5%	SLTST	brn, dkbrngy, sft, calc ip, rthy-sl sdy, grdg to slty LS
3400-3430	45%	SS	trns-clr, occ ltbrn-ltbrngy, vf-fgr, occ mgr, sbang-sbrnd, uncons-mcmnt, sil-wh calc cmt/wh calc cly fl, msrt, tr mica, n vis POR, NFSOC
	30%	LS	tan, brn, ltbrngy, occ crm, crpxl, frm-mfrm, occ sl slty-rthy, tr cht,cln, dns, tt, NFSOC
	15%	SH	pred m-dkgy, AA
	5%	SLTST	AA
	5%	CHT	AA

3430-3460	40%	LS	AA
	30%	SH	m-dkgy, sbplty-sbblky, frm, slty-sl sdy, tr mica, v rr carb frag, n calc, rthy, grdg to shy SLTST ip
	25%	SS	AA
	5%	SLTST	AA
3460-3490	65%	LS	tan-crm-wh, ltbrngy, brn, crpxl, mfrm-frm, v sl shy, v- sl chky, sl chty, cln, dns, tt, NFSOC
	15%	SH	AA
	10%	SLTST	AA
	5%	CHT	tan, brn, occ trnsi
	5%	SS	AA
3490-3520	45%	LS	AA, shy-v sl slty ip, sl chky, sl chty, cln, dns, tt, NFSOC
	30%	SH	brn, orngbrn, m-dkgy, sbplty-sbblky, frm-sft, sl slty, sl-n calc, tr mica, rthy, grdg to shy SLTST
	15%	SS	trnsi-clr, occ ltgy-ltgybrn, vf-fgr, sbrnd-sbang, mcmt, calc cly-sil cmt, tr wh calc cly fl, cln-occ ark ip, n vis POR, NFSOC
	10%	SLTST	AA
	TR	CHT	AA
3520-3550	60%	SLTST	ltgy-gy, occ ltgybrn, fri-frm, calc, mica, v sl shy, sdy, occ grdg to v slty vf gr SS
	20%	LS	brn, crm-tan ip, crpxl, frm-mhd, occ rthy, cln, v sl arg, occ v sl slty, dns, tt, NFSOC
	10%	SH	AA
	10%	SS	trnsi-clr, occ ltgy, vf gr, sbang-sbrd, w srt, p cmt-uncons, n-sl calc cly cmt, sl mica, v sl arg, slty-v slty, occ grdg to v sdy SLTST, tt-v rr intgr POR, NFSOC
	TR	CHT	orng-trnsi
3550-3580	40%	SLTST	AA
	30%	LS	AA
	20%	SH	lt-mgy, gybrn, redorng-orng, occ gn ip, sbblky-sbplty, sft-frm, n calc-calc, mica, slty, v sl sdy, rthy
	10%	SS	AA
	TR	CHT	AA
3580-3610	100%	SS	clr-trnsi, occ pale orng-redorng, vf-f gr, m gr ip, sbang-sbrd, w srt, uncons, w/tr glau xl, occ mica & wh CLYST frag, rr-tr intgr POR, NFSOC
	TR	SH	AA
	TR	LS	AA
	TR	SLTST	AA

3610-3640	90%	SS	AA
	10%	SLTST	AA
	TR	SH	AA
	TR	LS	AA
3640-3670	90%	SS	clr-trnsl, occ orng-fros, vf-f gr, occ rr m gr, sbang-sbrd, w srt, unconsl, w/occ mica flks-glau & fld xl, tr wh-ornng CLYST frag, tr intgr POR, NFSOC
	10%	SH	ornng-redornng, occ m-dkgy-brn, sbblky-sbplty, sft-firm, rthy-v sl slty, sl calc-calc, mica ip, rthy, v sl slty
	TR	SLTST	AA
	TR	LS	AA
3670-3700	65%	SS	AA, pred cvgs
	25%	LS	crm-tan, occ offwh, crpxl, frm-mhd, cln-dns, occ rthy, v sl slty-v sl sdy, chk ip, tt, NFSOC
	10%	SH	AA
	TR	SLTST	AA
3700-3730	70%	SS	AA, occ v lmy, grdg to v sdy LS ip
	20%	LS	AA, sdy ip, w/intbd free SS grs, occ grdg to v sdy LS
	10%	SH	AA
	TR	SLTST	AA
3730-3760	60%	SS	pred cvgs, AA
	20%	SLTST	redbrn-redornng, ornng, lt-m gy, occ gybrn, fri-firm, sdy-v sdy, mica, calc, v shy, occ grdg to v slty vf gr SS
	10%	LS	AA, occ gy, sdy ip
	10%	SH	redornng-redbrn, ornng, lt-mgy-gybrn ip, sbblky-sbplty, sft-firm, mica, rthy, v sl calc-calc, occ sl carb, slty-v sl sdy
3760-3790	35%	SS	AA
	30%	LS	crm-tan, ltgy-wh ip, crpxl-micxl, frm-mhd, rthy-cln, occ chk, v sl arg-v sl slty, tt, NFSOC
	20%	SLTST	pred redbrn, AA, grdg to slty SS ip
	15%	SH	redbrn-ltgy, AA
3790-3820	40%	LS	AA, bcmg brn, occ gybrn, pred wh-crm, sl slty, mrly ip, occ grdg to lmy SH
	20%	SLTST	AA
	20%	SH	AA, pred m gybrn-mgy
	20%	SS	clr-trnsl, vf-f gr, AA
3820-3850	35%	SH	lt-mgy, occ gybrn, redornng-redbrn ip, sbblky-plty, sft-firm, rthy, sl slty, mica ip, v sl sdy, occ v sl carb, lmy ip, occ grdg to v shy LS
	30%	LS	AA
	20%	SLTST	gybrn-gy, occ ltgy, fri-firm, sdy, mica, shy, rthy, lmy-v lmy
	15%	SS	AA

3850-3880	30%	SS	clr-trnsl, occ ltgy-fros, vf-f gr, occ m gr, sbang-sbrd, w srt, uncons-p cmt, v sl calc-arg cmt, mica, v sl slty, occ grdg to v sdy SLTST, tt-tr integr POR, NFSOC
	30%	LS	crm-tan-ltgy, occ gybrn-offwh, crpxl-micxl, frm-mhd, cln, occ rthy, chk ip, v sl chty, occ slty, v rr mic fos, tt, NFSOC
	25%	SH	AA
	15%	SLTST	AA
	TR	CHT	clr-trnsl, occ bf
3880-3910	60%	SS	SMPL LAT FOR BIT #3, ABNT VAR COL SH & SLTST CVGS clr-trns-fros, occ ltgy, vf-fgr, sbang-sbrd, w srt, uncons, occ w cmt, sl calc-arg cmt, v rr mica, tt-tr integr POR, NFSOC
	20%	LS	AA
	15%	SH	AA
	5%	SLTST	AA
	TR	CHT	AA
3910-3940	55%	LS	tan, brn, ltbrngy-ltgy-crm, occ offwh, crpxl-micxl, cln-occ rthy, sl chky, v sl chty, slty-occ sl sdy ip, tr mic fos, tt, NFSOC
	20%	SS	pred uncons AA
	15%	SH	dk brn-dk brnblk, dk brngy, frm-sft, sbplty-sbblky, occ plty, rthy-slty, tr pp mica, v sl calc, v-sl carb ip, occ grdg to shy SLTST
	10%	SLTST	AA
	TR	CHT	AA
3940-3970	75%	LS	tan-brn, ltbrngy ip, occ crm, crpxl-micxl, cln, sl chky, v sl chty, sl shy-occ v sl slty, dns, tt, NFSOC
	15%	SH	m-dkgy, occ dkgyblk-dkbrnblk, frm-sft, sbbplty-sbblky, rthy-slty, n-v sl calc, sl carb
	10%	SS	AA
	TR	SLTST	AA
	TR	CHT	AA
3970-4000	85%	LS	AA
	10%	SH	AA
	5%	SLTST	ltgy, ltgybrn, fri-sft, sl-v calc, occ lmy ip, rthy, grdg to slty LS
	TR	CHT	trnsl, bf
	TR	SS	AA
4000-4010	80%	LS	AA
	10%	SH	AA
	5%	SLTST	AA
	5%	CHT	AA
	TR	SS	AA

4010-4020	85%	LS	tan-brn, ltbrngy, AA,cln,dns,tt, NFSOC
	10%	SH	AA
	5%	SS	trns1-clr, vfgr, sbanr-sbrd, uncons, occ p cmt, sl calc cly cmt, cln, tt, NFSOC
	TR	SLTST	AA
	TR	CHT	AA
4020-4030	90%	LS	tan-crm-off wh, occ brn,crpxl-micxl, frm-mfrm, cln, chky, sl chty, occ v slty-sl sdy ip, tt-tr intxl POR, NFSOC
	10%	SH	dkbrn-dkbrnblk, dkgbyblk, frm-sft, slty ip, v rr pp mica, carb ip, occ grdg to shy SLTST
	TR	CHT	trns1-clr, bf
	TR	SLTST	AA
4030-4040	80%	LS	AA
	15%	SH	AA
	5%	CHT	AA
	TR	SLTST	AA
4040-4050	80%	LS	tan-crm-off wh, occ brn, crpxl, occ micxl, cln, chky, chty, tr mic fos, tt, NFSOC
	10%	SH	AA
	10%	CHT	AA
	TR	SLTST	AA
4050-4060	70%	LS	AA
	20%	CHT	brn, trns1-clr
	10%	SH	AA
4060-4070	50%	LS	m-dkbrn, occ tan-crm-off wh, crpxl-micxl, rthy, shy-occ sl slty, sl chky, chty, tt, NFSOC
	40%	SH	m-dkbrn,m-dkbrngy, mfrm-frm, occ brit, sl slty ip, rthy, lmy-calc, grdg to shy LS
	10%	CHT	AA
4070-4080	55%	LS	AA
	40%	SH	AA
	5%	CHT	AA
4080-4090	60%	LS	AA
	35%	SH	AA
	5%	CHT	AA
4090-4100	50%	SH	AA
	40%	LS	AA
	10%	CHT	AA

4100-4120	40%	SS	clr-trnsl, ltgy-fros, vf-f gr, sbang-sbrd, w srt, uncons-p cmt, sl calc-n calc cly cmt, mica, v sl slty, v sl lmy, tr fld xl, tt-rr intxl POR, NFSOC
	30%	LS	tan-crm-brn, ltgy-ltgybrn, crpxl-micxl, frm-mhd, rthy-cln, sl slty-sl sdy, v sl mica, occ shy, fos ip, tt, NFSOC
	10%	SH	m-dkgy, occ ltgy, redbrn-redorng cvgs ip, sbblky-sbplty, sft-frm, mica, rthy, sl slty, v sl carb, calc-v sl dol
	20%	SLTST	ltgy-ltgybrn, fri-frm, sdy-v sdy, mica, sl arg, lmy, occ grdg to v slty SS
4110-4120	50%	SS	AA
	20%	LS	AA
	20%	SLTST	AA
	10%	SH	AA
4			
4120-4130			ABNT REDORNG-REDBRN-VARI COL SH & CLR SS CVGS
	30%	SS	AA
	30%	LS	AA
	20%	SLTST	AA
	20%	SH	redbrn, occ lt-mgy, sbblky-sbplty, sft-frm, rthy, sl slty, mica, sl calc-calc, v sl carb
4130-4140			TR VARI COL SH-SS CVGS
	50%	LS	brn-crm-tan, occ ltgy-gy, crpxl-micxl, frm-mhd, rthy-cln, occ chk, dns, v sl slty, occ v sl sdy, rr mic fos, tt, NFSOC
	20%	SH	AA
	20%	SLTST	ltgy-gybrn, occ ltbrn, fri-frm, sdy, mica, v lmy, sl shy, occ grdg to v slty SS
	10%	SS	AA
4140-4150	70%	LS	AA, occ grdg to v lmy SH
	20%	SH	lt-mgy, occ gybrn, sbblky-sbplty, sft-frm, rthy, lmy, mica, v rr mic fos, v sl carb, occ grdg to v shy LS
	10%	SLTST	AA
4150-4160	85%	LS	pred tan-crm, AA, NFSOC
	10%	SH	AA
	5%	SLTST	ltgy-ltgybrn, fri-frm, rthy, sl mica, occ v sl sdy, lmy, occ grdg to v slty LS
	TR	SS	pred cvgs
4160-4170	75%	LS	tan-crm, ltgy-brn, occ offwh, crpxl-micxl, frm-hd, cln, occ rthy-sl slty, v sl mica, chty, v sl anhy, rr mic fos, tt, NFSOC
	10%	SH	AA
	10%	CHT	trnsl-clr, bf
	5%	SLTST	AA

4170-4180	80%	LS	AA
	10%	CHT	AA
	10%	SLTST	ltbrn-ltgy, occ ltgybrn, fri-frm, sl sdy, mica, shy ip, v lmy, occ grdg to v slty LS
	TR	SH	AA
4180-4190	70%	LS	brn-mbrn, occ tan-crm, gybrn ip, crpxl-micxl, sft-mhd, rthy, occ cln-dns, v sl slty, shy-v shy, occ grdg to v lmy MRLST, v rr mic fos, chty, tt, NFSOC
	20%	SH	brn-mgybrn, lt-m gy ip, sbblky-sbplty, sft-frm, rthy, v sl slty, mica ip, lmy-v lmy, occ grdg to v shy LS
	5%	CHT	trnsf-bf
	5%	SLTST	AA
4190-4200	70%	SH	AA, occ grdg to v shy MRLST
	30%	LS	AA
	TR	CHT	AA
4200-4210	55%	SH	AA
	30%	LS	AA
	10%	SLTST	AA
	5%	CHT	trnsf-bf
4210-4220	55%	LS	crm-tan, wh, occ brn-ltgy, crpxl-micxl, frm-mhd, cln-dns, occ rthy-chk, chty, v sl slty, v rr mic fos, sl sdy, tt-v rr intxl POR, NFSOC
	20%	SH	AA
	15%	CHT	AA
	10%	SLTST	ltgy-ltgybrn-tan, fri-mfrm, sl sdy, mica, sl shy, lmy-v lmy, occ grdg to v slty LS
4220-4230	70%	LS	AA, v chty, incr chk, sl anhy
	20%	SH	m-dkgy, occ lt-mgy, sbblky-sbplty, sft-frm, mica, rthy, sl slty, v sl carb, calc-v lmy, occ grdg to v shy LS
	10%	CHT	trnsf-clr, bf
4230-4240	80%	LS	tan, crm-wh, crpxl, occ micxl, frm-hd, cln-dns, occ rthy-chk, v sl slty, chty-v chty, v sl anhy, n-v rr mic fos, tt, NFSOC
	10%	SH	AA
	10%	CHT	AA
4240-4253			NO SAMPLE-SHAKER BYPASSED TO REPLACE SCREEN & FOR REPAIRS

4253-4260	60%	LS	tan-crm, occ wh-ltgy, crpxl-micxl, frm-hd, rthy-slty, occ cln, sl shy, dns, chty-v chty, v sl anhy, rr mic fos, v sl sdy, mica ip, occ grdg to v lmy SLTST, tt-v rr intxl POR, NFSOC
	25%	SLTST	tan-ltgy, fri-frm, sl sdy, mica, sl shy-v arg ip, v lmy, occ grdg to v slty LS
	15%	CHT	trnsf-bf, occ clr, trip ip
	TR	SH	AA
4260-4270	60%	LS	AA
	30%	SLTST	AA
	10%	CHT	AA
	TR	SH	AA
4270-4280	50%	LS	AA, v slty-v sl sdy, occ grdg to v slty LS
	35%	SLTST	AA
	10%	CHT	AA
	5%	SS	clr-trnsf, vf-f gr, sbang-sbrd, w srt, uncons-p cmt, lmy cmt-occ n calc cly cmt, mica, slty, v sl glau, tt, NFSOC
4280-4290	50%	LS	AA, v slty-v sl sdy, occ grdg to v slty LS
	35%	SLTST	AA
	10%	CHT	AA
	5%	SS	clr-trnsf, vf-f gr, sbang-sbrd, w srt, uncons-p cmt, lmy cmt-occ n calc cly cmt, mica, slty, v sl glau, tt, NFSOC
4290-4300	45%	LS	tan-crm, occ brn-wh-ltgy, crpxl-micxl, frm-mhd, rthy-v slty, occ cln-dns, v sl shy, occ v sl anhy, chty, n-v rr mic fos, grdg to v lmy SLTST, tt-v rr intxl POR, NFSOC
	45%	SLTST	AA, v lmy, grdg to v slty LS
	10%	CHT	bf, trnsf-clr ip
4300-4310	40%	LS	brn-mbrn, occ ltgy, AA, grdg to v lmy SH, v mlry
	40%	SH	m-dkbrn, m-gy ip, sbblky-sbplty, sft-brit, sl mica, slty ip, rthy, lmy-v lmy, occ grdg to v shy LS, v mlry ip
	15%	SLTST	lt-mbrn, ltgybrn, fri-frm, sl sdy, mica, shy-v shy, lmy
	5%	CHT	AA
4310-4320	60%	SH	AA
	20%	LS	AA
	20%	SLTST	AA
	TR	CHT	AA
4320-4330	50%	LS	ltgy-ltbrn, brn, occ crm-offwh, crpxl-micxl, frm-hd, cln-rthy, chk ip, slty-v slty, chty, v sl anhy, occ grdg to v lmy SLTST, tt-v rr intxl POR, NFSOC
	25%	SH	AA
	20%	SLTST	AA
	5%	CHT	trnsf-bf, occ clr

4330-4340	80%	LS	tan-crm,occ wh, lt-mbrn ip, crpxl-micxl, frm-hd, cln-dns, occ rthy-slty, chty ip, occ chk, v sl anhy, v rr mic fos, tt, NFSOC
	10%	SH	lt-dkgy,m-dkbrn, occ gybrn-blk, sbblky-sbplty, sft-frm, occ brit, rthy, sl slty mica, v sl carb, sl sooty ip, lmy-v lmy, occ grdg to v shy MRLST
	5%	SLTST	ltbrn-brn, occ gybrn, fri-frm, sl sdy, occ mica, shy, lmy-v lmy, occ grdg to v slty LS
	5%	CHT	AA
4340-4350	55%	SH	m-dkbrn, lt-mgybrn, sbblky-sbplty, frm-hd, occ sl slty, sl-v lmy, grdg to shy LS
	35%	LS	tan, occ crm-offwh, crpxl-micxl, frm-mhfrm, cln-cn,s slhy-sl rthy, chk occ sl slty, sl chty, rr anhy, tt, NFSOC
	5%	SLTST	AA
	5%	CHT	AA
4350-4360	40%	SH	dk-mbrn, dkbrnblk, dkgyblk, sbblky-sbplty, frm-hd, sl-v lmy, sl carb, v sl mica, occ grdg to shy LS
	35%	LS	tan-crm-offwh, crpxl-micxl, frm-mfrm, rthy-shy, occ sl slty, chky, sl chty, mot-cln, sl anhy-anhy, tt, NFSOC
	20%	SLTST	ltgy-ltgybn, fri-sft, sl sdy, lmy, w/occ LS include, grdg to slty LS
	5%	CHT	AA
4360-4370	70%	SH	dkgybrn-dkgyblk, mbrngy, plty-sbsplty, sbblky, occ fis, fri-mfrm, occ brit, sl carb, sl-v lmy, rthy-sl slty, occ grdg to v shy LS
	15%	LS	AA
	10%	SLTST	AA
	5%	CHT	AA
4370-4380	80%	SH	AA
	10%	LS	AA
	10%	SLTST	AA
	TR	CHT	AA
4380-4390	60%	SH	dk-mgybrn, dkgyblk-blk, AA, incr carb, sl mica
	30%	LS	tan-crm-offwh, m-ltgybrn, brn, crpxl-micxl, mfrm-frm, occ sh, shy-sl slty, cln-dns, occ rthy, chky, rr anhy, v sl chty, tt, NFSOC
	10%	SLTST	ltgy-ltgybrn, sft-fri, sl sdy-shy p, lmy, trdg to v slty LS
	TR	CHT	AA
4390-4400	70%	LS	tan-crm-wh, ltbrngy, brn, crpxl-micxl, mfrm-frm, occ hd, cln-dsn, sl shy, occ v sl slty, chk, chty, v rr mic fos, tt-v rr intxl POR, NFSOC
	20%	SH	AA
	10%	SLTST	AA
	TR	CHT	trns-l-clr,occ brn-smky

4400-4410	60%	LS	wh-crm-tan, occ ltgybrn-brn, crpxl-mcixl, frm-mfrm, occ hd, cln, v sl slty, dns, occ sl shy, v chk, sl anhy, sl chty, tt, NFSOC
	30%	SH	dk-mgybrn, blk,, dk-mgyblk, plty-sbsplty-sbblky, fis ip, frm-brit, sl-v carb, lmy-v carb, sooty ip
	5%	SLTST	AA
	5%	CHT	AA
4410-4420	60%	LS	AA
	35%	SH	incr blk, AA
	5%	CHT	AA
	TR	SLTST	AA
4420-4430	55%	SH	brn-m-ltgybrn, dkbrndkbrnblk-blk, sbblky-sbplty, frm-mfrm, rthy, lmy-v calc, tr LS include, occ grdg to v shy LS ip
	30%	LS	tan, ltgybrn, occ crm-offwh-brn, crpxl-micxl, mfrm-frm, occ hd, rthy-shy, cln-dns, sl chk, tt, NFSOC
	10%	SLTST	ltgy-ltgybrn, frii-sft, calc-lmy ip, shy-sl slty, grdg to slty LS
	5%	CHT	trnscl-clr, occ bf
4430-4440	45%	SH	AA
	40%	LS	AA
	10%	SLTST	AA
	5%	CHT	
4440-4450	50%	SH	AA, incr lmy-sl dol ip, occ grdg to shy LS
	35%	LS	AA
	10%	SLTST	AA
	5%	CHT	AA
4450-4460	55%	SH	dk-mgybrn, dkbrnblk, dkgyblk, mfrm-hd, occ brit, plty-sbplty-sbblky, v rthy, calc-v lmy, sl dol ip, grdg to shy LS
	25%	LS	tan, ltgybrn, brn, occ crm-wh, crpxl-micxl, frm-mfrm, dns, rthy-shy, occ chk, sl chty, grdg to lmy SH
	15%	SLTST	ltgy-ltgybrn, frii-sft, sl calc-v lmy, occ v sl shy, grdg to v slty SH
	5%	CHT	trnscl-clr, occ bf-brn
4460-4470	55%	SS	trnscl-crl-ltgy, ltgybrn, vf-f gr, sbang-sbrd, w-m srt, w-m cmt, sil-sl calc cly cmt, v slty, tr mica, tr carb include, rr glau, n vis POR, NFSOC
	20%	SLTST	m-ltgy, frii-sdy, sdy, tr carb include, v sl calc, grdg to vfgr SS ip
	15%	SH	AA
	10%	LS	AA
	TR	CHT	AA

4470-4480	55%	SS	AA, sl incr carb incl, tr mot wh calc cly fl, tt, NFSOC
	20%	SH	m-dkgy, occ dkgybrn-blk, ptlyl-sbplty-sbblky, frm-mfrm, rthy-sl slty, occ carb, n-sl calc
	15%	SLTST	AA
	10%	LS	AA
4480-4490	35%	LS	tan-ltgybrn, crm-offwh, occ brn, crpxl-micxl, mfrm-hd, occ brit, rthy-sl shy, occ sl slty, chty, sl chk, cln, tt, NFSOC
	35%	SH	ltgybrn-brn, m-dkgy, occ dkgyblk, sbplty-sbsplty, sbblky, mfrm-brit, calc-sl dol ip, tr LS include, rthy-lmy, occ grdg to shy LS
	15%	SLTST	AA
	10%	SS	AA, NFSOC
	5%	CHT	trns-l-clr-mlky, brn-smky
4490-4500	40%	LS	AA
	30%	SH	AA
	15%	SLTST	AA
	10%	SS	AA, bcmg incr calc, tt, NFSOC
	5%	CHT	AA
4500-4510	30%	SH	ltbrn-ltgybrn, sbpty-sbblky-pty, frm-mfrm, occ sft, calc-lmy ip, v sl dol, rthy-slty, grdg to shy LS ip
	30%	LS	tan-ltgybrn, crm-offwh, occ brn, crpxl-micxl, frm-brit, rthy-shy, occ sl sty, v chty, chk, occ cln-dns, tt, NFSOC
	20%	CHT	mlky-trns-l, clr
	15%	SS	bcmg ltgybrn-trns-l
	5%	SLTST	AA
4510-4520	40%	SH	AA
	35%	LS	AA, occ grdg to mot lmy CLYST, tt-v rr intxl POR, NFSOC
	10%	CHT	AA
	10%	SS	AA
	5%	SLTST	AA
4520-4530	40%	SH	AA, grdg to shy LS ip
	35%	LS	pred tan-ltgybrn, crpxl-micxl, frm-mhd, rthy-sl slty, sl chty, chk ipk, dns, tt-tr intxl POR, NFSOC
	15%	SLTST	AA
	10%	CHT	AA
	TR	SS	AA

4530-4540	50%	SH	dkbrn-dkbrnblk-blk, m-dkgybrn, sbblkky-sbplty, mfrm-brit, sl calc-calc, occ sl dol, sl slty, carb ip, occ grdg to shy LS
	30%	LS	AA
	10%	SLTST	AA
	10%	SS	AA
	TR	CHT	AA
4540-4550	50%	LS	crm-tan-brn, occ gybrn, crpxl-micxl, frm-mhd, rthy-slty, occ cln-dns, v sl slty-sdy, v rr mic fos, v sl mcia, sl anhy ip, occ grdg tov lmy SLTST, tt-v rr intxl POR, NFSOC
	40%	SH	AA
	10%	SLTST	gybrn-brn, occ ltgy, fri-frm, sl-v shy, lmy, occ sl sdy, mica, grdg to v slty SH ip
	TR	CHT	trnsf-bf
4550-4560	50%	SH	m-dkgy-dkgybrn, occ blk, sbblkky-sbplty, sft-frm, occ brit, rthy-slty, calc, v sl carb, occ sooty, sl mica, mrlly, occ grdg tov shy MRLST
	40%	LS	AA
	10%	SLTST	AA
	TR	CHT	AA, occ smky brn
4560-4570	70%	LS	tan-ltgy, occ crm-wh, brn ip, crpxl-micxl, frm-hd, cln, occ rthy-chk, v sl sdy, slty ip, occ arg, chty, sl anhy, dns, tt, NFSOC
	20%	SLTST	ltgy-ltgybrn, fri-frm, rthy-arg, sl sdy, mica, v lmy, occ grdg tov slty LS
	10%	SH	AA
	TR	CHT	trnsf-bf
4570-4580	55%	LS	AA, occ grdg to v lmy SLTST
	30%	SLTST	AA
	10%	SH	AA
	5%	SS	clr-trnsf, ltgy, vf-f gr, sbang-sbrd, w srt, uncons-p cmt, v sl arg-calc cmt, v slty ip, sl arg, occ mica, grdg tov sdy SLTST, tt-v rr integr POR, NFSOC
	TR	CHT	AA
4580-4590	55%	LS	crm-tan-ltgy, occ ltgybrn-wh, crpxl-micxl, sft-mhd, cln-dns, occ rthy-slty, v sl anhy, chty, v rr mic fos, chk ip, sl shy, tt, NFSOC
	20%	SLTST	AA
	15%	CHT	trnsf-bf, occ clr
	10%	SH	AA
4590-4600	60%	LS	AA
	20%	SLTST	ltgy-ltgybrn, occ tan, fri-frm, lmy-v lmy, sl sdy, mica, sl sdy, grdg tov slty LS
	20%	CHT	AA
	TR	SH	AA

4600-4610	60%	LS	AA, bcmg brn-mbrn, v slty, shy
	20%	SH	m-dkbrn, occ mgybrn, sbblky-sbplty, sft-firm, occ brit, rthy, sl slty, mica, mrly ip, occ sl carb, lmy-v lmy, grdg to shy MRLST
	15%	SLTST	AA
	5%	CHT	AA
4610-4620	60%	LS	AA, ltgy-gybrn
	20%	SLTST	AA
	15%	SH	AA, occ blk
	5%	CHT	AA
4620-4630	70%	LS	tan-ltbrn, ltgybrn, crm-wh ip, crpxl-mcixl, frm-mhd, rthy-cln, sl slty-v slty ip, chty, occ chk, v sl anhy, arg ip, occ grdg to v lmy SLTST, tt, NFSOC
	15%	SLTST	AA
	10%	SH	AA
	5%	CHT	AA
4630-4640	70%	LS	AA
	20%	SLTST	ltgy-tan, occ ltgybrn, fri-firm, sl sdy, shy ip, occ mica, lmy-v lmy, occ grdg to v slty LS
	10%	SH	AA
	TR	CHT	AA
4640-4650	40%	LS	brn-mbrn, occ mgybrn, micxl-crpxl, sft-mhd, rthy-v shy ip, sl slty, occ cln, chk, v sl chty, rr mic-Crin fos, occ grdg to lmy SH, tt, NFSOC
	40%	SH	mgybrn-mbrn, sbblky-sbplty, sft-firm, occ brit, rthy, sl slty, lmy, mica, occ grdg to v shy MRLST, carb ip
	20%	SLTST	AA
	TR	CHT	trnsf-bf
4650-4660	60%	SH	AA
	20%	LS	AA
	20%	SLTST	AA
	TR	CHT	trnsf
4660-4670	60%	SH	AA
	30%	LS	AA
	10%	SLTST	ltgybrn-ltbrn, fri-firm, sl sdy ip, shy, mica, rthy, lmy, occ grdg to v slty SH
4670-4680	70%	SH	AA, sl dol, carb ip
	20%	LS	AA
	10%	SLTST	AA

4680-4690	60%	SH	m-dkbrn, m-dkgy, sbblky-sbplty, sft-brit, mica, rthy, sl slty, v sl mica, calc-v sl dol, occ sl carb, grdg to shy LS ip
	30%	LS	brn-mbrn, crm-tan ip, crpxl-micxl, frm-mhd, cln-rthy, sl slty, shy, v sl chty, occ sl anhy, grdg to v lmy SH, tt, NFSOC
	10%	SLTST	AA
4690-4700	70%	SH	AA
	20%	LS	AA
	10%	SLTST	AA
4700-4710	70%	SH	dkgy-blk, blkgy-sbplty, frm-brit, rthy, slty, mica, calc-sl dol, carb, sooty ip
	25%	LS	AA
	5%	SLTST	AA
4710-4720	80%	SH	AA
	15%	LS	AA
	5%	SLTST	AA
4720-4730	70%	SH	AA
	20%	LS	crm-brn, occ wh-gybrn, crpxl-micxl, sft-mhd, rthy, cln ip, sl slty-slty, v sl anhy, arg-v shy ip, v rr mic fos, tt, NFSOC
	10%	SLTST	brn-gybrn, occ ltgy, fri-frm, lmy-shy, mica, v sl sdy
4730-4740	45%	LS	brn-gybrn, offwh-crm, crpxl-micxl, micsuc ip, sft-mhd, rthy, occ cln-dns, sl slty, arg, ANHY ip, tt-v rr intxl POR, n-v rr mnrl FLOR, NSOC
	30%	SH	AA
	20%	ANHY	wh, amor, sft
	5%	SLTST	AA
4740-4750	55%	LS	AA, tt-tr intxl POR, v rr mnrl FLOR, NSOC
	25%	SH	AA
	15%	ANHY	AA
	5%	SLTST	AA
	TR	CHT	mlky-trnsl
4750-4760			INCR AMT VCOL SH&SLTST CVGS
	45%	LS	tan-ltbrngy, brn, AA, tt, NFSOC
	25%	SLTST	ltbrn-ltbrngy, brn, frm-sft, v sl sdy ip, calc-lmy, grdg to slty LS
	15%	SH	dkbrngy-dkgyblk-blk, frm-brit, plty-sbplty, sl calc, tr pp mica, sl-v carb, sooty
	10%	ANHY	AA
	5%	CHT	trnsl-clr, smky

4760-4770	35%	LS	MOD AMT VCOL CVGS AA tan-ltbrngy, brn, occ crm, crpxl-micxl, occ mic suc, frm-mfrm, rthy-v slty, sl chky, chty, anhy, tt-tr intxl POR, NFSOC
	25%	SLTST	AA, grdg to slty LS
	20%	SH	AA, prob cvgs
	15%	ANHY	AA
	5%	CHT	AA
4770-4780	50%	LS	tan-crm-off wh, ltgybrn, crpxl-micxl, occ mic suc, mfrm-frm, occ brit, cln, v slty-shy ip, occ sl sdy, chky, chty, anhy, tt-tr intxl POR, NFSOC
	20%	SH	AA, prob cvgs
	15%	SLTST	AA, grdg to slty LS
	10%	ANHY	AA
	5%	CHT	AA
4780-4790	70%	LS	AA, tr intxl POR, v rr mnrl FLOR, NSOC
	15%	SH	AA
	10%	ANHY	AA
	5%	CHT	AA
4790-4800	50%	LS	AA, tr inxl POR, tr dull yel orng-yel FLOR, n vis STN, v p v fnt res ring CUT
	30%	ANHY	wh, occ trnsf, amor, xln
	15%	SH	AA
	5%	CHT	mlky-trnsf, occ brn
4800-4810	50%	LS	crm-off wh-tan, brn, crpxl-micxl, mhd-frm, occ mic suc, cln-sl shy, v anhy, chky, chty, tt-v rr intxl POR, tr dull orng-yelorng FLOR, NSOC
	40%	ANHY	trnsf-clr, wh, xln, amor
	10%	SH	AA
	TR	CHT	AA
4810-4820	35%	ANHY	trnsf-clr-wh, xln, amor ip
	35%	LS	tan-crm-off wh, brn, occ ltbrngy, crpxl-micxl, frm-mfrm, cln, occ rthy-shy, occ sl slty, v anhy, chky, chty, dns, tt, tr-rr dull-brt yel-yelorng FLOR, NSOC
	25%	SH	mgybrn, dk-mgyblk, blk, plty-sbblky, frm-sft, slty ip, n-v carb, prob cvgs
	5%	CHT	mlky-trnsf
4820-4830	80%	DOL	ltbrn-tan, ltbrngy, occ brn, micxl-micsuc-crpxl, frm-mfrm, rthy-slty, sl chky, tt, rr-tr v dull orng FLOR, NSOC
	15%	LS	tan-crm, occ brn, crpxl-micxl, mhd-frm, cln, dns, sl chky, tt, NFSOC
	5%	SH	AA
	TR	CHT	AA

4830-4840	60%	DOL	ltbrn-tan, m-dkbrn, AA, tt, NFSOC
	15%	ANHY	wh, occ trnsi, amor, occ xln
	10%	LS	tan-crm-off wh, crpxl-micxl, mfrm-mhd, cln, chty, anhy, sl chky, shy-occ sl slty, tr intbd blk SH, occ sl dol ip, dns, tt, NFSOC
	10%	SH	blk, occ dkbrnblk, splty-sbplty-sbblky, frm-brit, v carb, n calc, occ v sl slty
	5%	CHT	AA
4840-4850	50%	DOL	AA, tt, NFSOC
	40%	SH	blk-occ dkbrnblk-dkgyblk, plty-sbblky-sbsplty, frm-brit, occ slty, n calc, v carb
	5%	ANHY	AA
	5%	LS	AA, NFSOC
4850-4860	95%	SH	blk-dkgyblk-dkgy, plty-sbplty-sbblky, mfrm-frm-occ sft, v carb, occ sl slty, sl-v calc, sooty
	5%	LS	crm-tan-ltbrngy, crpxl-micxl, mhd-frm, cln-shy, chky, dns, tt, NFSOC
	TR	DOL	AA, NFSOC
	TR	ANHY	AA
4860-4870	90%	SH	pred blk-dkgyblk, AA, v calc, sooty
	10%	LS	AA, NFSOC
	TR	ANHY	AA
	TR	CHT	mlky-trnsi
4870-4880	85%	SH	AA
	15%	LS	AA, incr shy, NFSOC
4880-4890	55%	DOL	m-dkbrn, m-ltgybrn, crpxl-micxl, mfrm-frm, occ mhd, rthy-shy ip, occ sl slty, cln, dns, v sl chty, tt, NFSOC
	30%	SH	AA, calc-sl dol ip, v sl carb
	10%	LS	tan-crm, occ offwh, crpxl-micxl, frm-mhd, cln-sl shy, chk, sl anhy, sl chty, tt-v rr intxl POR, NFSOC
	5%	CHT	bf, mlky-trnsi
4890-4900	65%	LS	tan-crm-trnsi, occ offwh, micxl-crpxl-micsuc, cln, grdg to lmy SLTST, shy ip, chk, chty, sl anhy, tt-v rr intxl POR, NFSOC
	30%	SH	m-dkgy, blk-dkgyblk, plty-sbblky, frm-mfrm, sl slty, n-v carb, sl calc, sl dol ip
	5%	CHT	mlky-trnsi
4900-4910	55%	LS	AA
	35%	SH	AA
	5%	CHT	AA
	5%	ANHY	AA

4910-4920	60%	ANHY	trns-l-wh, amor-xl, sft-firm
	30%	LS	AA, v slty-cln, tt-v rr intxl POR, v rr mnrl FLOR, NSOC
	10%	SH	blk-dkgy, AA
	TR	SLTST	gybrn, frm, v lmy, sl sdy, arg ip, mica
4920-4930	70%	ANHY	AA
	20%	LS	AA, dol ip, v slty, occ grdg to v anhy-v lmy SLTST ip, NFSOC
	10%	SH	dkgy-blk, AA
4930-4940	40%	ANHY	wh-trns-l, xl, occ amor, sft-firm
	20%	LS	tan-ltgy, crm-offwh, crpxl-micxl, micsuc ip, frm-mhd, occ dns, rthy-slty, sl dol, chty, anhy ip, tt-v rr intxl POR, n-v rr dull mnrl FLOR, NSOC
	20%	DOL	ltbrn-gybrn, micxl-micsuc, frm, rthy, anhy, sl slty, arg, v sl lmy, tt-tr intxl POR, n-v rr v fnt dull yel FLOR, NSOC
	10%	SH	AA
	TR	CHT	trns-l
4940-4950	40%	ANHY	AA
	30%	LS	AA, incr dns, rr intxl POR, NFSOC
	20%	DOL	AA, rr-tr intxl POR, n-v rr fnt dull yel FLOR, n vis STN, n-v rr v slow dif CUT
	10%	SH	dkgy-blk, sbblky-sbpty, sft-brit, calc-dol, carb-sooty, rthy, slty ip, sl mica
4950-4960	40%	DOL	tan-brn, gybrn, micxl-micsuc, vfxl, frm, sl anhy, rthy-sl slty, v sl arg, lmy ip, sl anhy-tr ANHY incl, tt-tr intxl POR, n-v rr fnt dull yel FLOR, n vis STN, n-v p v slow dif CUT
	20%	LS	AA, NFSOC
	20%	ANHY	AA
	20%	SH	AA, dkgybrn, v dol, occ grdg to v shy DOL
4960-4970	40%	DOL	AA, tr-fr intxl POR, fr-dull yel FLOR, v rr ltbrn STN, rr slow dif-v slow stmg mlky CUT
	40%	LS	wh-crm, tan, ltgybrn, crpxl-micxl, frm-mhd, rthy ip, cln, sl dol, anhy, slty ip, tt-v rr intxl POR, n-v fnt dull yel FLOR, NSOC
	10%	ANHY	wh-trns-l, amor-xl, sft-firm
	10%	SH	AA
4970-4980	50%	DOL	ltbrn-ltgybrn, micxl-micsuc, occ vfxl, frm, cln, rthy-slty ip, sl anhy-v rr ANHY include, occ lmy, tt-fr intxl-v rr pp vug POR, fr dull-rr spty bri yel FLOR, n-rr ltbrn STN, tr slow stmg-tr slow dif CUT
	30%	LS	ltbrn-crm-offwh, crpxl-micsuc, frm-mhd, cln-sl rthy, sl anhy, dol ip, v sl slty, tt-tr intxl POR, n-rr spty bri yel FLOR, n vis STN, n-v p slow dif CUT
	10%	ANHY	AA

4980-4990	50%	DOL	ltbrn-ltgybrn, crpxl-micxl, AA, incr shy ip, tt-tr intxl POR, n-rr dull yel FLOR, n-v rr vis dkbrn STN, n-v p slow dif cut-v rr v slow stng mlky CUT
	30%	LS	AA, incr crpxl, shy-dol ip, tt-v rr intxl POR, rr spty dull yel-mnrl dull mnrl FLOR, n vis STN or CUT
	20%	SH	dkgy-blk, dkgybrn, sbblky-sbplty, sft-firm, brit ip, calc-sl dol, mica, sl slty, carb-sooty
	TR	ANHY	wh-trnsl, xl, sl amor, sft-firm
4990-5000			P-F SMPL, LAT FOR DST, ABMT V COL CVGS
	80%	SH	blk-dkgyblk, dk-mgy, sbsplty-sbplty-sbblky, mfrm-firm, occ sft, rthy-sl slty, calc-sl dol ip, v carb, tr pp mica, sooty ip
	10%	DOL	AA
	5%	ANHY	AA
	5%	LS	AA
5000-5010			F-P SMPL, AA
	65%	SH	AA
	15%	LS	tan-ltbrngy, occ brn, crpxl-micxl, mfrm-firm, sl-v shy, occ sl slty, chky, anhy, sl chty, cln, dns, tt-v rr intxl POR,
	10%	ANHY	trnsl, wh, xl, amor
	10%	DOL	m-dk brn, micxl-mix suc-crpxl, frm, sl slty-rthy, sl shy, cln, dns, tt, NFSOC
5010-5020	90%	SH	blk-dkgyblk-dkbrnblk, plty-sbblky-sbsplty, occ fis, brit-firm-occ sft, calc-lmy, v carb, occ sl -v slty, tr pp mica, sooty
	10%	LS	AA
	TR	DOL	AA
	TR	ANHY	AA
5020-5030	95%	SH	AA
	5%	LS	AA
	TR	DOL	AA
	TR	ANHY	AA

FORMATION TOPS

OPERATOR:
WELL NAME:

CONLEY P SMITH OPERATING CO.
FOSTER FEDERAL #19-13

GL: 5817' KB: 5830'

FORMATION NAME	PROGNOSIS	SAMPLE	E LOG	DATUM
KELLY BUSHING	5830'	5830'	5830'	+5830'
CUTLER	---	---	---	---
VIRGIL	3240'	3266'	3300'	+2529'
MISSOURI	3910'	3900'	3965'	+1864'
DES MOINES	4290'	4270'	4305'	+1524'
UPPER ISMAY	4685'	4728'	4737'	+1092'
HOVENWEEP SHALE	---	4838'	4852'	+977'
LOWER ISMAY	4835'	4878'	4885'	+944'
PARADOX FORMATION	4935'	4987'	4987'	+842'
PARADOX SALT	5010'	---	---	---
TD	5010'	5030'	5034'	+795'

DST NUMBER : 1 INTERVAL TESTED: LOWER ISMAY BHT: 170

	PSI	TIME
	TOP CHART	BOTTOM CHART
	4908'	4988'
INITIAL HYDROSTATIC:	2365	2393
INITIAL FLOW:	62 - 81	67-90
INITIAL SHUT IN:	296	221
FINIAL FLOW:	77-103	81-106
FINIAL SHUT IN:	293	292
FINIAL HYDROSTATIC:	2301	2317

REMARKS: O IF: OPEN TOOL W/ WEAK BLOW 1" IN BUCKET; 3" IN 4 MIN.; 8" IN 6 MIN.; BOTTOM OF BUBBLE
 BUCKET IN 10 MIN.; 6oz IN 12 MIN.; 7oz IN 15 MIN.; CLOSE TOOL; ISI-60 MIN.

20 MIN.; 6oz IN 30 MIN.; 5oz IN 40 MIN. & STABLIZED TO END OF TEST; 5oz IN 60 MIN.; CLOSE TOOL; FSI-120 MIN.

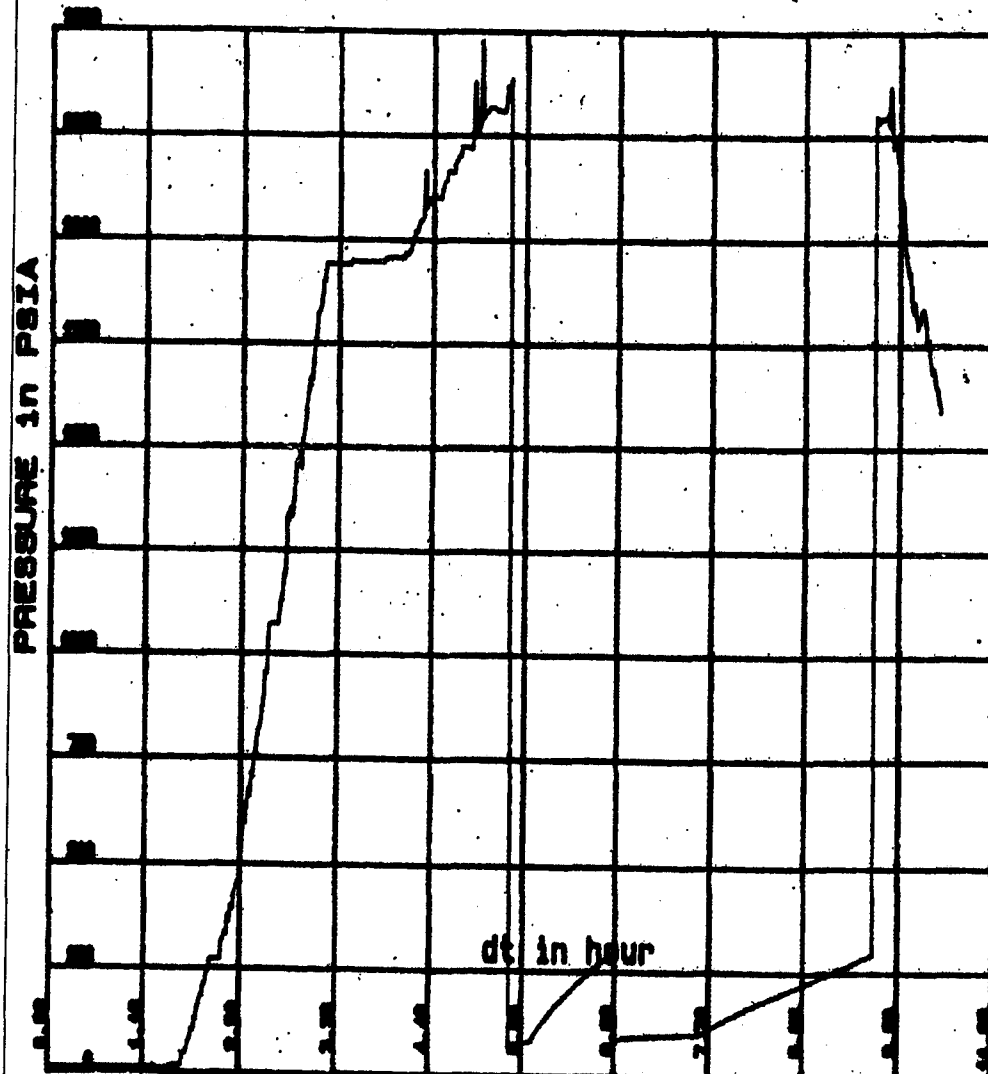
PIPE RECOVERY: 150' TOTAL FLUID; 90' DRILLING MUD - 60' SL OIL & HEAVILY GAS CUT DRILLING MUD; 750' OF GAS NOTE ; 750'

GAS NOTED IN DRILL PIPE; Rw TOP- 0.52 @ 70deg F; Rw BOTTOM-0.70 @ 55deg F

SAMPLE CHAMBER RECOVERY: 2500cc SAMPLER: 2200cc TOTAL FLUID-OIL & GAS CUT DRILLING MUD; TRACE
 GAS; Rw SAMPLE CHAMBER: 0.6 @ 58deg F; CL-12000ppm

CHART: BOTTOM CHART @ 4988'

LINEAR PLOT



BAKER OIL TOOLS

ROCKY MOUNTAIN GEO-ENGINEERING CORP.

2450 Industrial Blvd.
Grand Junction, Colorado 81505
(303)243-3044

ZONE OF INTEREST SHEET

ZONE OF INTEREST NO 1

COMPANY CONLEY P. SMITH OPERATING CO.
WELL FOSTER FEDERAL #19-13
LOCATION SW SW SEC.19, T30S-R24E

INTERVAL From: 4963 To: 4978

DRILL RATE Above 3 M/FT Thru 2.5 TO 1.25 M/FT Below 5 M/FT

MUD GAS - CHROMATOGRAPH DATA

	Total	C1	C2	C3	C4	C5	Other
Before	61	3101	413	220	25	NONE	
During	450	22886	3046	1623	183	TSTM	
After	74	3747	499	266	30	NONE	

Type gas increase: Gradual ☐ Sharp ☒
Variation in zone: Steady ☒ Erratic ☐ Increase ☐ Decrease ☐

Fluorescence: Mineral ☐ Even ☒ Cut ☐ Stream ☐
none ☐ Spotty ☒ none ☐ slow ☒
poor ☐ poor ☒ mod ☐
fair ☒ fair ☒ fast ☐
good ☐ good ☐
% in spl 70
% in lith 50
color MLKY YEL
TR SLOW DIF

Stain none ☐ poor ☒ fair ☐ good ☐ live ☒ dead ☐
res ☐ even ☐ spty ☒ light ☒ dark ☐

Porosity poor ☐ fair ☐ good ☒ Kind: INTXL-RR PP VUG

LITHOLOGY DOL-lt-mbrn,micxl-micsuc, occ vfxl, sl anhy, shy ip, v sl slty; LS-crm-wh-tan, crpxl-mic

xl-micsuc, sl dol, cln, v sl anhy

SAMPLE QUALITY: GOOD

Notified KEN ROBERTS @ 11:30 Hrs. Date: 12/13/95

Remarks BEST DRILLING BREAK VERY THIN (3') ; SAMPLE SHOW SLIGHTLY WEAK

GEOLOGICAL SUMMARY

AND

ZONES OF INTEREST

The Conley P. Smith Operating Co.'s, Foster Federal #19-13 well, was located in the SW SW of Section 19, T30S, R24E of San Juan County, Utah. Four Corners Drilling Rig #7 was rigged up on location on December 5, 1995, and drilling of an 12 1/4" hole was begun on December 5, 1995. Drilling continued to a depth of 1510' to run 8 5/8" surface casing. Drilling of a 7 7/8" hole was begun on December 8, 1995. Mudding up was begun on December 11, 1995 at 4250'. Drilling continued with halts at 3710' to work on the tail shaft and at 3806' for a new bit, to a depth of 4990' on December 13, 1995, where drilling was halted at the base of the Lower Ismay member of the upper Paradox Formation for DST #1. DST #1 was run on December 14, 1995. Drilling was resumed on December 14, 1995, and the well was drilled to a total depth of 5034' in the Paradox Formation (Gothic Shale member), where sample were circulated prior to running electric logs. Electric logs were run on December 15, 1995. Geological coverage was begun on December 8, 1995, at 2550' in the middle of the Cutler Formation. All tops used in this report are electric log tops.

CUTLER 1858'-3300 (+3971')

The Cutler is of Permian age and overlays the Virgil (upper Honaker Trail) with a gradational contact. The Cutler is predominately a massive shale with interbedded siltstones, channel sands, scattered very thin fresh water limestones, and scattered minor cherts and anhydrite lens. The shales were predominately redorange to orange, occasionally redbrown, and vary colored, non to slightly calcareous, micaceous, slightly bentonitic, silty in part, occasionally sandy, with rare crystalline anhydrite inclusions. The siltstones were orange to redorange to redbrown, becoming brown to graybrown with depth, sandy, non to slightly calcareous, micaceous. The sandstones were predominate clear to translucent, some orange to redorange grains, very fine to medium grained, with some coarse grains, subangular to subround, well sorted, poorly cemented to unconsolidated, and occasionally arkosic. The thin limestones ranged in color from white to redbrown to pink to rose, and were cryptocrystalline, shaley to slightly silty, dense and tight. The rare thin cherts were clear to orange. The anhydrites were white, amorphous, crystalline and were predominately very thin interbeds in the shales.

The Cutler was 1442' thick in this well and is of no economic interest in this well.

VIRGIL (UPPER HONAKER TRAIL) 3300'-3965' (+2529')

The Virgil (Upper Honaker Trail) is the upper member of the Hermosa group and is of upper Pennsylvanian age. The Virgil is predominately a cream to white to tan to light gray, occasionally tan to gray brown, cryptocrystalline to microcrystalline, slightly fossiliferous limestone and light gray, occasionally gray green, varicolored, non to slightly calcareous, occasionally silty shales. Interbedded in the limestones and shales were orange to red orange to red brown, light gray to light gray brown, non to slightly calcareous, sandy siltstones, and scattered thin very fine to medium, occasionally coarse grained, unconsolidated to medium cemented, argillaceous to calcareous, occasionally arkosic, sandstones..

The Virgil overlies the Missouri with gradational contact between the carbonaceous shale at the base of the Hermosa and the silty limestone at the top of the Missouri. The Virgil was 665' thick and is of no economic interest in this well.

MISSOURI (LOWER HONAKER TRAIL) 3965'-4305' (+1864')

The Missouri (Middle to lower Honaker Trail) was predominately a tan to dark brown, occasionally cream to off white to gray brown, cryptocrystalline to microcrystalline, tight, clean, slightly cherty, occasionally silty to sandy, slightly fossiliferous limestone. Interbedded in the limestone were siltstones, shales, and minor thin sandstones.

The shales were light to dark brown, medium to dark gray brown, slightly silty, calcareous, occasionally carbonaceous, and graded to v shaley marlstone in part. The siltstones were light to medium gray, and graybrown, sandy to very sandy, very limy grading to v silty limestone. Thin scattered translucent to brown to buff cherts, and thin clear to light gray, very fine to fine grained, clean to slightly arkosic, non to slightly calcareous, sandstones were also noted while drilling the Missouri.

The Missouri was 340' thick and there were no significant gas increases noted while drilling. The Missouri is of no economic interest in this well and gradationally overlays the Des Moines with a sharp electric log contact, but only a subtle change in the drill rate and samples.

DES MOINES 4305'-4737' (+1524')

The Des Moines (lower Honaker trail) was picked in this well at the top of a medium to dark brown and medium to dark brown carbonaceous shale. The Des Moines in some reports is the middle to lower time designation from the top of the Paradox Formation to the base of the Pinker Trail Formation, all of Pennsylvanian age (see RMAG, 1981 Geology of the Paradox Basin; Facies Recognition And Hydrocarbon Potential Of The Pennsylvanian Paradox Formation; Reid and Berghorn, et al, pg 113). The Des Moines could be correlated to the Paradox Member of the lower Honaker Trail used by Celsius Energy and Ampolex (Texas), Inc. in the Blanding Basin area (sub basin) of the Paradox Basin to the south.

The Des Moines in this well was predominate tan to light gray to gray brown, cream to off white, cryptocrystalline to microcrystalline, clean to earthy, fossiliferous, slightly anhydritic, cherty, silty to occasionally very silty limestone. Interbedded in the limestone were shale, siltstones, and very thin cherts and sandstones. The shales were medium to dark brown, medium gray brown, mica, limy, carbonaceous and slightly sooty, and became black to dark gray, very carbonaceous to slightly dolomitic and sooty at the base. The siltstones were light gray to light gray brown to brown, limy, very slightly sandy, and graded to very silty limestone. The thin sandstones were translucent to clear to light gray, very fine grained, with siliceous to calcareous cement, slightly glauconitic and graded to very sandy limestone. The cherts were milky to translucent to clear to buff and were very thin lenses and nodules in the limestone.

The Des Moines overlay the Upper Ismay with a sharp contact between the basal black carbonaceous shale of the Des Moines and the tight slightly anhydritic limestone of the Upper Ismay. The Des Moines was 432' thick, had no significant gas increases noted while drilling, and is of no economic interest in this well.

UPPER ISMAY 4737'-4852' (+1092')

The Upper Ismay member of the Paradox Formation was a cream to brown, light gray brown to white tan, tight, dense, occasionally slightly anhydritic limestone, with thin interbedded medium to dark gray, gray brown, microcrystalline to very finely crystalline dolomite at the base. Scattered buff cherts, very thin black carbonaceous shales and light brown to gray brown, slightly sandy, limy siltstone were noted in the limestones. There was a thin 5' thick anhydrite were noted in the top of the upper Ismay from 4743' to 4748'. This was the upper most anhydrite of the two anhydrites, known as the "Rabbit Ear" anhydrites. A 21' thick anhydrite was noted from 4792' to 4813'. Below the anhydrite, from 4813' to 4852', was interbedded tan to cream to off white, cryptocrystalline to micro crystalline, slightly anhydritic, occasionally dolomitic, tight limestone and light to dark brown, gray brown, microcrystalline, earthy to shaley dolomite. The limestone and dolomite had no to very rare porosity, only dull mineral fluorescence, and no stain or cut. The limestone

and dolomite at the base of the Upper Ismay became increasingly shaley with depth, and graded into the Hovenweep Shale.

The Upper Ismay was 115' thick and is of no economic interest in this well.

HOVENWEEP SHALE 4852'-4885' (+977')

The Hovenweep shale underlies the Upper Ismay with a gradational contact between the shaley dolomite and limestone at the base of the Upper Ismay and the dolomitic shales of the Hovenweep. The shales were medium to dark gray to black, dolomitic, slightly limy to limy, silty, carbonaceous, sooty, slightly micaceous and, very slightly fossiliferous. The Hovenweep Shale had a gas increase of 150 units from a background 30 units.

The Hovenweep Shale was 33' thick in this well and is of no economic interest.

LOWER ISMAY 4885'-4987' (-865')

The Lower Ismay was interbedded medium to dark brown, medium to light gray brown, microcrystalline to cryptocrystalline, shaley to clean, tight dolomite and tan to cream to off white, cryptocrystalline to microcrystalline, silty to slightly anhydritic, dolomitic limestones with very rare porosity and visible fluorescence, stain or CUT in the upper 26'. From 4911' to 4957' the Lower Ismay was a 46' white to translucent, amorphous to crystalline, dense anhydrite. Below the anhydrite, the Lower Ismay was thin interbedded tight limestone and dolomite from 4957' to 4967'. Show #1 was from 4967' to 4985' in predominately a light brown to brown to light gray brown, microcrystalline to very finely crystalline, some microcrystalline, earthy to silty, slightly limy dolomite, with fair intercrystalline to rare pin point vuggy porosity, fair dull to a trace of bright yellow fluorescence, a trace of light brown stain and a trace of cut. Interbedded in the dolomites were thin cream to tan, microcrystalline to microcrystalline, anhydritic, limestone with poor intercrystalline porosity, very rare dull yellow fluorescence, no visible stain, and a very poor very slow cut. Show #1 had a gas increase of 450 units from a background of 61 units, and C₁ through C₄ on the chromatograph. The basal dolomite from 4885' to 4987' graded into the black carbonaceous shale of the Gothic Shale. See Show #1 report included with this report for further details. DST #1 was run from 4930' to 4990' with only gas and slightly oil cut drilling mud recovered in the sample chamber and drill pipe and very low formation pressures recorded.

The Lower Ismay was 102' thick and is of no economic interest in this well.

PARADOX FORMATION 4987'-5030' (+842')

The Paradox Formation (Gothic Shale in the southern part of the Paradox Basin) like the Hovenweep Shale is a very dolomitic, carbonaceous, sooty shale or more properly a sapropelic dolomite. The Paradox Formation overlays Paradox Salt with a sharp contact in this area, had an associated gas increase of 120 units from a background of 50 units. The Paradox Formation was of indeterminate thickness in this well, as the Paradox Salt was not penetrated in this well. The Paradox Formation is of no economic interest.

The Conly P. Smith Operating Co.'s Foster Federal #19-13 well was drilled to a total depth of 5034'-loggers depth (drillers depth: 5030') in the Paradox Formation on December 14, 1995. Electric logs were run on December 15, 1995. At the time of this report the well has been plugged and abandoned.